The CHEMISTAND DRUGGIST

For Retailer, Wholesaler and Manufacturer

APRIL 3 1954

Inviting you to visit the Marquise Stand at the



AT OLYMPIA
STAND No. M96

Our friends from home and overseas will be given a cordial welcome

CLEAVER GRIPS
AND
CURL CLIPS
BEST IN THE TRADE

ERIC C. CLEAVER

LIMITED NOTTINGHAM





"AS a slogan," said the Expert, "that's got whiskers on it."

"True," we replied. "We have been using it for more years than even my Grandfather cares to remember."

"It is platitudinous," sneered the Expert.

"Granted," was our reply, "but most platitudes were wise and true when first spoken."

"It is hackneyed, outdated; it is corny," shouted the Expert.

"But it is true," we answered. "Ayrtons' capabilities could not be better described in so few words." But the Expert had exploded.



ATRTON SAUNDERS

& CO. LTD

HANOVER STREET · LIVERPOOL

Telephone Royal 8282

Sell value // *



So many 'expensive equipment' features

make the popular-priced Kershaw King Penguin the

finest folding camera value on the market today.

- Synchronised for flash
- Fully self-erecting
- High-quality Kershaw Lens
- Sports-type viewfinder
- Tripod Fitting
- Ultra-smart appearance



King Penguin

34" x 24" folding camera

only £4.19.10 (inc. P.T.)

Write today for sales literature and colourful display material.

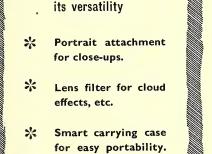
G.B. EQUIPMENTS LTD

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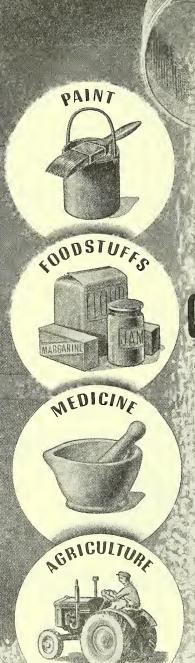
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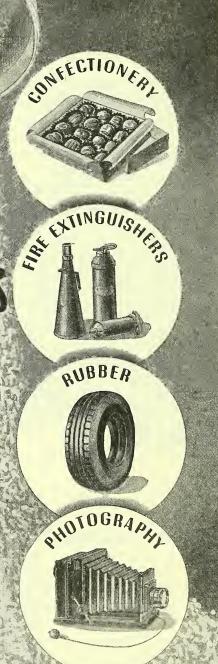


these optional

extras add to



CHEMICAL
FOR
EVERY
TRADE



R.W. GREEFF & CO.LTD.

12, FINSBURY CIRCUS, LONDON, E.C.2 Grams: GREEFF AVE LONDON. Phone: LONDON WALL 5241

A Mill line by EVANS MEDICAL

HANDGUARD

Barrier Creams

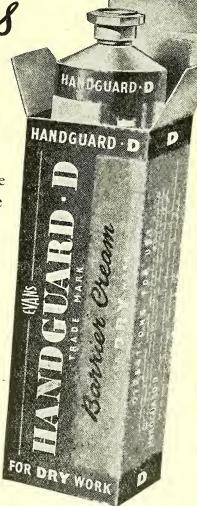
D-FOR DRY WORK W-FOR WET WORK

These new antiseptic preparations give adequate protection against damage to the skin. Easy to apply, non-sticky, non-irritant, Handguard Barrier Creams protect hands in all types of manual work, wet or dry; and they have the superb quality that the name of Evans Medical implies.



PACKAGE AND DISPLAY

The Handguard preparations are issued in printed tubes and cartons with full directions for use. Handsome display outers are provided for quantities of one dozen-either of one kind or both Handguard 'D' and 'W' mixed.



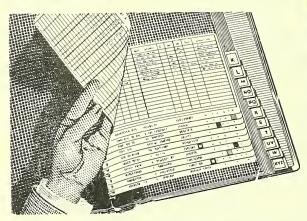
HANDGUARD 'D' and 'W' retail at 2/3d. per 50 g. tubewholesale 17/2d. dozen R.T.



A PRODUCT OF EVANS MEDICAL SUPPLIES LTD

Liverpool: Speke, Liverpool 19 * London: Ruislip, Middlesex * Newcastle: Tower House, Tower Street, Newcastle-upon-Tyne Swansea: 4 Mariner Street, Swansea ★ Glasgow Agents: The New Apothecaries Company Limited, S9 Glassford Street, Glasgow, CI

WATCH THOSE DISCOUNT



New System Saves Time and Labour Yet Ensures Discount Reminders and Immediate Balances.

Chemists have so many items purchased from so many suppliers—with invoices coming in at each post, Invoice trouble is a common complaint.

A new speedy and flexible system has been devised at the request of many Chemists to overcome this difficulty.

Based on simple principles approved by the Accountancy profession, it not only reduces paper work but ensures the payment in time for special discounts.

A single binder contains a number of visible recordsone for each supplier.

The edge of each record overlaps and is permanently visible. No pages to thumb through—a glance and a flick and you have the supplier. And on this visible edge is a colour signal to flash the latest time for discounts.

Invoices, as they come in, are safely housed in compact files pending a convenient moment. Quick and simple posting to the visible record, with an adjusted balance, enables an instant check of supplier's statement to be made. At any time a ledger balance can be struck in a matter of minutes, Annual audits are simplified.

The system is flexible. New suppliers can be entered in correct order quickly and auxiliary sheets can be added to cover considerable deliveries.

No wasted time on invoice posting . . . less paper work a quicker balance and statement check and payment on time for discounts. Many Chemists advise us that the modest cost is covered by this last saving alone.

Just write "Chemists Sales & Purchase Ledger" on your letterheading or billhead for full details by return.

This simple principle has also been applied to Stocks and Customer Records. Add these if you require details.



hannon \ystems

VISIBLY BETTER RECORDS

THE SHANNON LTD. 118 Shannon Corner,

New Malden, Surrey.



Summer will soon be here and with it an even greater demand for Esoban De Luxe Cream of Ca'amine — ideal for irritant skin conditions, sunburn, chafing, eczema, etc.

ORDER NOW for SPECIAL SEASONAL TERMS

 $33\frac{1}{3}\%$ discount + bonus 13 to the dozen (3 doz. orders either size).

PLUS

5% on £5 and 10% on £10 direct orders offered in return for 14-day counter and

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* Attractive show material on request

LARGE SIZE 2/11d. (inc. tax) HANDY PACK 1/6d. (inc. tax)

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From the Carnegie Range of Fine Chemicals

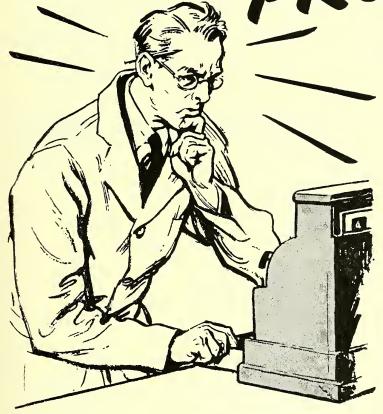
SANTONIN

CARNEGIES OF WELWYN LTD

Telegrams: 'CARNEGIES, WELWYN GARDEN CITY'
Telephone: WELWYN GARDEN 5001

(6 lines)

33 missing from the till! - and 8 of it PROFIT!!!



No, not stolen, just not taken because you had no stock of Ribena. Worse than that, you disappointed a customer. Competition is too keen to do this! There's no sense in asking your customers to go to your competitors. What's more they may stay there if they can get WHAT THEY WANT-WHEN THEY WANT IT If Ribena is not on your shelves ask your Wholesaler now—He's got it, and can supply you immediately.

ASK

CARTERS OF COLEFORD (Glos.)

today for their sales aids that sell and put this Ribena profit into your till.



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THE COMPLETE PRODUCTION
OF
PHARMACEUTICAL
PREPARATIONS

Regd. Trade Mark

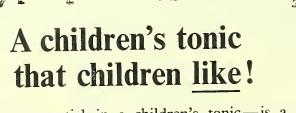
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OINTMENTS
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SUPPOSITORIES

LOZENGES · PASTILLES EMULSIONS · SUSPENSIONS

ARTHUR H. COX & CO. LTD. BRIGHTON

MANUFACTURING CHEMISTS FOR OVER A CENTURY



FLAVOUR—a prime essential in a children's tonic—is a distinctive feature of Ferbelan. Finicky children—the children for whom a tonic is most frequently prescribed—take it eagerly.

One teaspoonful provides:—
Iron and ammonium
citrate 3 grains

Vitamin B₁ 2 mg. Nicotinamide 5 mg. Riboflavine 0.5 mg.



PRICES
4 fl. oz. bottles

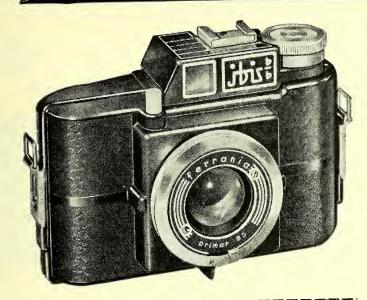
PHARMACISTS RETAIL
2/- 3/-

40 fl. oz.—
16/2 for dispensing

THE BRITISH DRUG HOUSES LTD. LONDON N.I

Fer/**T/2**

WELL-ADVERTISED BEST SELLERS



Takes 8 pictures $2\frac{1}{4}'' \times 1\frac{5}{8}''$ on 127 film. Ferrania Primar 7.5 cm. lens. Brilliant optical eye-level viewfinder. Sturdy metal construction — attractive leather finish. Safety device prevents accidental exposures.

Ever Ready Case 17/11

ONLY £3.15.0

A NEW CAMERA FOR NEW BUSINESS

Ferrania 1BIS 24×24

AKES 12 pictures $2\frac{1}{4}'' \times 2\frac{1}{4}''$ on F20 film. Ferrania Primar 8.5 cm. lens. Synchronised for flash photography. Optical eyelevel viewfinder. Instantaneous and time exposures. Die-cast body with leather finish.

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ONLY £4.18.6



Display material on request

ROLL FILMS

Superpanchro F.20 2/11, F.620 2/11, F.27 2/7, F.16 3/8, F.616 3/8, F.29 2/11.



35 mm. FILMS

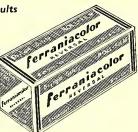
P.3. Fine Grain Pan, and S2 Superpanchro Cassettes, 36 exposures, 8/9. Refill, 36 exposures, 4/6. Refill, 3 × 36 exposures, 12/1. Refill, 10×36 exposures, 36/11.

ferrania color

WITH HOME PROCESSING KITS

Enables user to see results same day.

Available in 35 mm. 20 exposures, in cassettes, 15/3 (refills 11/10) or F.20



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Superpanchro $2\frac{1}{4}$ × $3\frac{1}{4}$ 14/9. Superpanchro 9×12 cm. 21/6. 30 metre unspooled length 35 mm. 64/1.



PROMPT DELIVERY SERVICE

& COMPANY LT 77 NEWMAN STREET · LONDON · W.I. Tel: LANgham 7161 (10 lines)

A NAME KNOWN SINCE 20 YEARS

A FEW OF OUR MANY TESTIMONIALS

(The originals of these and hundreds of others can be seen at our offices.)

BIRMINGHAM. I have tried a selection of different kinds and YOURS IS THE ONLY ONE that seems to suit my feet.

LIVERPOOL. I am writing to thank you for the wonderful relief given me by your Corn Plaisters. After only four days my corn is completely gone.

WARRINGTON. I used them regularly until recently and found them to be the only Plaisters worth the money.

OLD HILL. Having heard my friends say "Hobson's Choice" Plaisters are the best and that they have tried so many sorts will you please send me some.

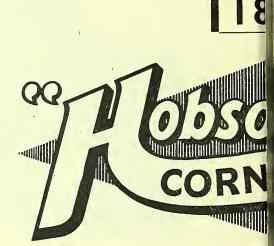
REGENTS PARK, N.W. Please send me "Hobson's Choice." A friend has been telling me how much good they have done her feet.

STOCKPORT. I have used your Corn Plaisters for many years and have found them most successful. It has been a joy to recommend them to many others.

ASHFORD, Kent. Please forward some of your wonderful Corn Plaister which I have found never to fail.

LYTHAM. I would like to thank you for the great relief I have found in these treasures of yours. For 6 months my feet have got a new lease of life, thanks to you.

OVERSEAS ENQUIRIES There is a very large demand for a CORN PLAISTER in CORN PLAISTER in throughout the world. There is a very large demand for a many large demand for a control throughout the world. TERMS etc. pupon request.



3d. PACKETS Original and NEW LIFE FOR AN OLI

I have had the privilege of taking over this old established and world famous business which was founded nearly a century and a quarter ago in the reign of William IV.

Whilst I knew that, through various circumstances, this famous business had been allowed to run down, as it were, I felt sure, after reading the testimonials in the files that here was a product worthy of efficient oganization and backing.

With this in mind I know "Hobson's Choice' Corn Plaisters will soon occupy their rightful place as the most popular products of their kind in the British Isles.

The business is already operating nationally and

POST COUPONS TO: HOBSON TRIMBLE & CO. LTD., COLDSTART BUILDING

	RETAILERS PLEASE USE THIS COUPON Please send full details and Price Lists of 'HOBSON'S CHOICE' CORN PLAISTERS
NAME	······································
•	
MY WHOLESALER	IS

AFTER THE BATTLE OF WATERLOO

DE COTES

PLAISTERS

still the Best!

7D. PACKETS

AND RESPECTED PRODUCT

is showing real progress, due to limited national advertising, which has taken place recently, and a programme has now been laid down which will bring to the new generation, and a reminder to the old, this reliable product. It is a pleasant coincidence that a film has just been made with the title "Hobson's Choice" and I believe that with carefully planned, well thought out and widespread advertising, millions of people in the British Isles will want "Hobson's Choice" Corn Plaisters.

With the co-operation of Representatives, Wholesalers and Retailers, "Hobson's Choice" will again become leader in its field.

J. Parker

WINDHILL, SHIPLEY, YORKS ENGLAND.

OUR LATEST TESTIMONIAL COMES FROM

SYDNEY, AUSTRALIA

(The original may be seen at our office)

I shall be very pleased if you will kindly forward to me at the above address sufficient of your Hobson's Choice Corn Plaister. I used your plaisters to my great advantage many years ago and regularly had supplies sent to me, but now that source is not available. No chemist here has ever heard of them, but I assure you that I have obtained great relief from them for over 45 years. I enclose bank draft for £2, so will you please send sufficient to absorb same and allow for postage. Thanking you for your kind attention and an early receipt. I am, Yours, T.E.

ANOTHER "HOBSON'S CHOICE"

PRODUCT will shortly be placed on the market. We will send you full details later!

Telephone: SHIPLEY 52081/2/3

WHOLESALERS PLEASE USE THIS COUPON

Please send us full details and Wholesole Prices etc. of HOBSON'S CHOICE CORN PLAISTERS

NAME

ADDRESS.....

......

REPRESENTATIVES PLEASE USE THIS COUPON

Please send me full details of HOBSON'S CHOICE Corn Plaisters as I may be interested in handling same on my ground. I already call on buyers of such a product.

NAME

ADDRESS.....

AREA COVERED.....

WILES TAKES THE LEAD . . with BIG PRICE REDUCTIONS!

WILES CAT FOOD

 $\int_{per\ ti}^{10} \frac{1}{2} \frac{D}{D}$

in the new pack

Now millions of Cat owners can buy the finest quality at a price they can afford. Wiles Cat Food contains seafresh fish liver and is a specialised diet, that means extra sales and increased volume for you.

WILES DOG FOOD

NOW D.

in the new pack

Lowest priced yet highest quality. Made from real Red Meat and liver, with balanced vitamins, minerals and protein.

Bigger Profits for the Trade

Are you getting your share of these money making lines? Wiles Dog and Cat Food each show a clear 25% profit to the retailer and a high profit margin for the wholesale trade. Packed 72 8oz. cans per case

DISPLAY WILES NOW FOR QUICK SALES

C. WILES LTD

WOODMANSEY

BEVERLEY

E. YORKS.

Bismuth*

Carbonate FOR DYSPEPSIA

* PROTECTIVE

Bismuth Carbonate becomes evenly distributed over the gastric mucosa and protects an ulcer crater from acid and trauma.

* ADSORPTIVE

Bismuth Carbonate reacts with HCl to form Bismuth oxychloride which adsorbs and entraps a further volume of acid.

* ASTRINGENT

Bismuth combines with protein to form a proteinate which may be responsible for the mild astringent properties of Bismuth Carbonate.

* EFFECTIVE

Clinical trials covering over 700 cases each followed up for over 2 years have shown Bismuth Carbonate to be the treatment of choice in cases of dyspepsia.

Full illustrated Literature from:

Bismuth Research Dept.

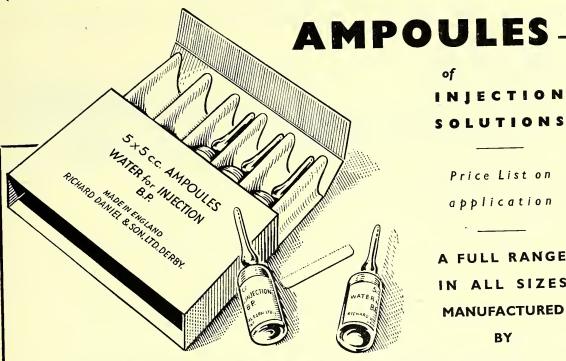
MINING & CHEMICAL PRODUCTS LTD 86 STRAND, LONDON, W.C.2

RENTOKIL TIMBER FLUID

Record sales have proved the public's appreciation of RENTOKIL TIMBER FLUID. ALWAYS hold adequate stocks of this outstanding woodworm preventive. Retails at 2/-, 3/3, 5/9, 9/6 and in bulk.



RENTOKIL LTD. (Dept. C.D.) Fetcham, Leatherhead, Surrey. Tel: Leatherhead 4021/2



of INJECTION SOLUTIONS

Price List on application

A FULL RANGE IN ALL SIZES **MANUFACTURED** BY

SON LTD RICHARD DANIEL

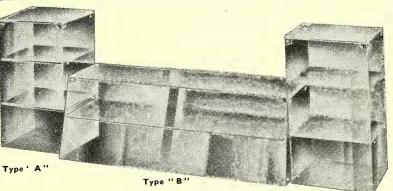
MANSFIELD ROAD, DERBY

Also at ASHTON-UNDER-LYNE

TEL: 48266 (4 lines)

COMPARE OUR PRICES!

The Lowest Priced **GLASS SHOWCASES** on the Market-



Type " A ' '

High Long Deep Shelves Price 21 12 10 1 54/6 21 24 10 1 63/- 24 16 12 2 70/- 24 18 12 2 72/9 30 14 10 2 71/6 28 24 12 2 87/6 36 24 18 2 115/- 24 18 12 1 78		T '	YPE	"A"			T '	YPE	"B"	
VIINOLIIL BASES,	21 21 24 24 30 28 36	-Inches Long 12 24 16 18 14 24 24 VITR	Deep 10 10 12 12 10 12 18	Shelves	Price 54/6 63/- 70/- 72/9 71/6 87/6 115/-	7 7 14 10 10 14 16 20 14 21	24 36 24 30 42 36 30 24 48 48	Deep 10 10 10 12 12 10 9 12 12 12	- - - - - ! ! ! !	Price 42/6 46/6 54/6 47/6 55/- 63/9 60/- 64/- 78/- 106/6 115/-

DIRECT TO YOU FROM THE MAKERS

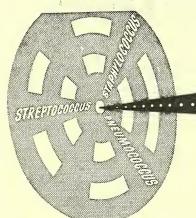
Free Insurance against breakage for 12 months. .. Free Delivery anywhere in Great Britain.

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H.F.D. (Metal & Glass) LTD. 195 CLARENDON ROAD, LONDON, W.II.

Telephones: PARk 8970 & 8694

SELECTIVE Antibiotic The SAFE new



NOW AVAILABLE IN TWO FORMS

BRAND OF ERYTHROMYCIN

'ILOTYCIN' PAEDIATRIC SUSPENSION—the safe antibiotic suspension for children. Each 5 cc. (large teaspoonful) contains 100 mg. 'Ilotycin.' Average dose 50 mg. per stone bodyweight 3 or 4 times daily. Supplied as dry granules, in bottles to produce 60 cc. of flavoured suspension. (Retail 27/6d. exempt P.T.)

'ILOTYCIN' TABLETS—each containing 100 mg. Average dose 3 tablets every six hours. Supplied in bottles of 24 and 100 specially coated tablets. (Retail 54/- and 217/6d. respectively, exempt P.T.)

★ Effective against the most common pathogenic organisms—Staphylococcus, Streptococcus, Pneumococcus ★ Effective against resistant strains. No cross resistance with other antibiotics ★ No contra-indications—Negligible effect on B. coli group—No toxic diarrhoeas ★ No nitro-group in molecule—No alteration in normal blood picture



Erythromycin OBIGINATOR

ELI LILLY AND COMPANY LIMITED

BASINGSTOKE

HANTS



PREPARED WHEAT GERM A RICH NATURAL SOURCE OF VITAMINS B and E TWO SIZES 1/9 or 3/-

Trade 16/- doz. or 27/- doz. FREE NON-RETURNABLE CARTONS From Principal Wholesalers or from the Manufacturers

CARR'S CEREAL PRODUCTS

Non Allergic

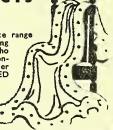
BEAUTY PRODUCTS

THE SAFETY FACTOR IN EVERY DAY MAKE-UP

Queen beauty products form a complete range of toilet and beauty preparations, including lipsticks, specially for those women who have sensitive skins. Queen products contain no orris in any form, nor any other skin irritants AND ARE RECOMMENDED BY THE MEDICAL PROFESSION.

Obtainable from your Wholesaler or direct from ..

BOUTALLS CHEMISTS LTD. 60 Lambs Conduit St., London, W.C.I



A FREE WINDOW DISPLAY TO HELP YOU SELL MORE

COLD WATER DYES

In 30 popular shades. Counter Display Cabinet supplied with one gross on request.

48/- gross: Retail 6d. pkt. (P.A.T.A.) Less 5% for cash in 7 days

These dyes carry a bigger profit margin than others and now, to help you sell more, we offer, free of charge, a Special Window Display dressed by specialists. This, with our extensive advertising in women's magazines, can mean record sales for you this Season. Write at once to:

Standard range of twelve colours. Dull or glossy series; supplied complete STRAW HAT DYES with brushes for applying the dye.

Large size 18/- per doz. Retail (P.A.T.A.) 2/- per bottle Small size 13/6 ,, ,, ,, ,, 1/6 ,, ,,

Less 5% for cash in 7 days

WHITAKER & CO. (KENDAL) LTD. DYE AND CHEMICAL MANUFACTURERS - KENDAL

eugène

a name that means magic to every woman

> World-renowned in connection with Permanent Waving, the name EUGENE is the accepted hall-mark of quality for shampoos and hair preparations.

***AND NOW** there are BIGGER **PROFITS** FOR YOU!

EUGENE BEAUTY SHAMPOO

(SOAPLESS)

REDUCED PRICE—from The retail price of the Beauty Powder Shampen is reduced to 44d, from April 1st.

Shampoo is reduced to 4½d. from April 1st.



Example of Eugène advertising appearing regularly in women's magazines and papers, with circulations totalling almost 22,000,000. The Eugene Radio programme is broadcast over Luxembourg 208m. every Tuesday 9.45 p.m. commencing April 6th.

AND NOW YOU

ARE BEING OFFERED LARGER TRADE DISCOUNTS on Eugène Pearl Shampoo and Eugène Hair Rejuvenatorand still bigger profits if you take advantage of the generous display discounts. Be ready to meet the growing demand don't lose sales. Check your stocks now. Salescreating display material sent with every order.

Ready-Selling Eugène lines which you should stock-

4½d. per packet. Eugène Beauty Shampoo $1/5\frac{1}{2}$ d. and $2/4\frac{1}{2}$ d. per tube. Eugène Pearl Shampoo 1/7d. and 2/3d. per tube. Eugène Hair Rejuvenator 2/3d. per bottle. Eugène Friction Lotion 1/10d., 3/2d. per bottle. Eugène Setacreme Setting Lotion 1/10d., 3/2d. per bottle. Eugène Setagene Quick-setting Lotion Eugène Brilliantine (four assorted colours) 2/3d. per bottle.

For particulars of the new EUGENE prices and extremely advantageous EUGENE Trade Terms, write to:

DON. S. MOMAND LTD., 58 Albany St., London, N.W.I EUSton 5184

Sole Distributors for Great Britain (exc. N. Ireland)

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NATURAL RAW MATERIAL

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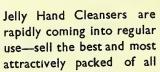
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The finest jelly hand cleanser on the market

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"ANGEL FACE"
IS MADE
BY POND'S

Face," $17\frac{1}{2}$ " deep by $13\frac{1}{2}$ " wide. Display it prominently in your shop. At once it will attract the attention of your women customers, make them long for the velvet-soft loveliness that "Angel Face" can give them. They will want to buy "Angel Face" right away!

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'RELIANCE' NATURAL SPONGES



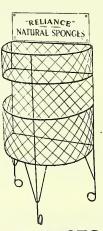
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Natural deep sea sponges are softer, kinder to the skin, hygienic, and hold three times more water than any substitute. More and more of your customers are realising this every day. That is why to display natural sponges is to SELL THEM!

Cresswell's have been in the Sponge Trade for more than 150 years, and as the largest bulk buyers of Natural Sea Sponges, Cresswell's get THE BEST WHEN THE SPONGE CROP IS FISHED. Please write for price lists and details—or for our Representative to call.

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Limited, Toronto, Ontario—
can offer facilities for the
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Fifty years' experience

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MADE BY THE MAKERS OF THE FAMOUS NURSE HARVEY'S MIXTURE

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Still only 2/3 a tube, 12/- per dozen plus 75% P.T. from your Wholesaler or from Biometica Ltd., Bullhead Road, Boreham Wood, Herts.

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Quality Drugs marketed by , Knoll.

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Packed in 1, 5, 10 and 40 gallon drums

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USP. XIII.

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CARTERS OF COLEFORD

MAKERS OF Ribena

Announce

A Special Window Display Bonus Scheme

for *Rosena

ROSE HIP and ORANGE with EXTRA GLUCOSE

In return for 14 days' continuous Window Display of ROSENA we will give you a special Bonus of

2 extra bottles for every two dozen ordered before April 30th 1954

Whether ordered direct or through wholesaler

1 dozen: . . 27/- per dozen

6 dozen: . 26/4d " "

12 dozen: . 24/8d ,, ,

* Rosena is exceptionally rich in the vitamins of both Rose Hips and Oranges. It also contains three energising sugars—cane sugar, fruit sugar and Glucose. Rosena is particularly suitable for children from two weeks after birth to ten years of age. Its sweet flavour has been specially blended to suit them. Concentrated. Retail Price 2/10d. a bottle.



H. W. CARTER & CO. LIMITED

The Royal Forest Factory, Coleford, Glos.

Tel.: Coleford 3201



THIS NEW, HYGIENIC DISPENSER TYPE PACK



will create big sales for



FLEXIBLE FIRST - AID DRESSING

Arrange through your WHOLESALER to stock and display HELVIA Flexible Dressing now available in this attractive new pack. More compact... more convenient... more hygienic... it's the last word in modern first-aid dressing.

Made up in continuous lengths of 1 yard $-1\frac{1}{2}$ ", $2\frac{1}{2}$ " and 3" wide.

Ideal for Home, Sport, Motoring, and all occasions when a small pack is required.

★ Sold only through leading Chemists

LESLIES LTD, WALTHAMSTOW, LONDON, E.17. Established 1823

New distribution arrangements for

SHELLTOX the household insecticide

which brings you most profit!

SHELLTOX is now distributed to Pharmacists—retail and wholesale—and Hospitals, by The British Drug Houses Limited from their three distributing points in London, Liverpool and Nottingham. They will also deal with enquiries for display and other sales promotion material.*

Prices	Trade	Retail
8 oz.	1/2	1/9
16 oz.	2/-	3/-
32 oz.	3/6	5/3
Shelltox Sprayers	2/71/2	3/6





Bonus Terms 2½% discount on assorted £3 orders.

★ A new showcard will shortly be available on request.

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for your biggest-ever cosmetic turnover!

CREME PUFF
LIPSTICK
FACE POWDER
PAN-CAKE Make-up
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SATIN-FLOW
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EYE MAKE-UP

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No less than 350 separate Max Factor

No less than 350 separate Max Factor

advertisements will appear in the next three months...

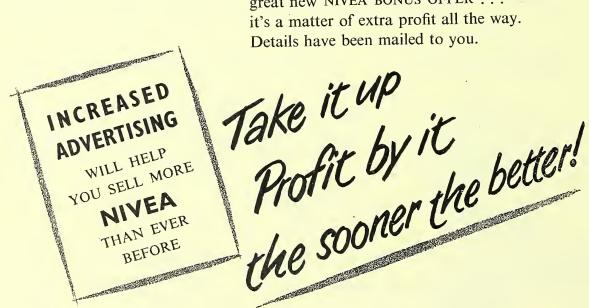
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advertisements will appear in the next three months...

Only by tying up with this unprecedented volume of MAX FACTOR advertising IN your window . . . ON your counter . . . BEHIND your counter can you reap the full benefit of EXTRA SALES . . . EXTRA PROFITS

Best ever Bonus Offer Bonus NIVEA

The most profitable way to buy Nivea is to buy NOW. It sells throughout the year . . . it will sell faster than ever this Summer. Take advantage of the great new NIVEA BONUS OFFER . . . it's a matter of extra profit all the way. Details have been mailed to you.



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for the
eradication of
Pseudomonas
Infection in
Otitis

'AEROSPORIN' brand Otic Solution, which is now available, is a specially formulated preparation of 'Aerosporin' brand Polymyxin B Sulphate, an antibiotic highly and rapidly bactericidal to many gram-negative organisms and pre-eminent against *Pseudomonas pyocyanea*.

'Aerosporin' Otic Solution is therefore of specific value in otitis externa and chronic otitis media due to *Ps. pyocyanea* (*Ps. aeruginosa*). The occurrence of this organism has become more apparent since the introduction of penicillin therapy, which has little or no effect on the gram-negative organisms or the fungi present in otitis. There is evidence that the fungi also are susceptible to 'Aerosporin'. Bacterial resistance to 'Aerosporin' has not been reported.

'Aerosporin' Otic Solution is markedly hygroscopic and has a low surface tension, giving optimal conditions for an adequate concentration of the antibiotic at the site of infection. It is issued in bottles of 10 c.c. with dropper at 9/6, subject to usual discount. Each c.c. contains 10,000 units of polymyxin B sulphate.

⁶Aerosporin ⁹

Otic Solution

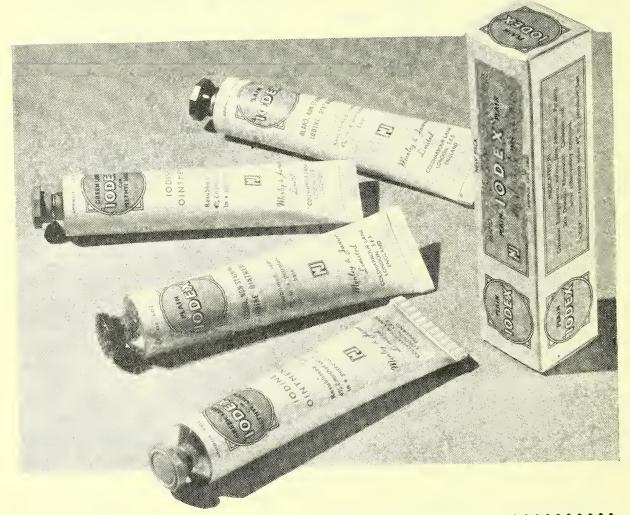


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REGISTERED

for the household



This outstanding iodine ointment, so bland and safe, is invaluable in a large number of minor common ailments, and is widely used by athletes.

Painful bruises are quickly resolved by the penetrating iodine, and accompanying bad grazes are no bar to the use of 'Iodex' Plain.

'IODEX' (PLAIN)
'IODEX' cum METHYL SALICYL.
(GREEN LABEL)

non-staining iodine ointments

RETAIL PRICES

1-oz. tubes 2/7½ each, including Purchase Tax
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Shelf Mills, Shelf, nr. Halifax, Yorkshire

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Grams: "Illmond," Bradford

COTTON WOOLS

B.P.C. Quality Cotton Wools

Hospital Quality Cotton Wool

(Drug Tariff.)

Sterilised and Unsterilised,
in all weights, for home and export.

Quantities labelled with your own labels.

BOTTLE NECK WOOL
FILTER PADS
WOOL & COTTON TISSUE
B.P.C. Quality
RESPIRATOR REFILLS
KNITTED BANDAGES

PACKING MATERIALS

NEEDLELOOM FELTS

For thermal, sound and vibration insulation and protection.

COTTON WOOLS

Bleached and Unbleached Rolls from 2 in. to 40 in. wide, weights 3 oz. per sq. yd. upwards.



THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 161

April 3, 1954

No. 3867

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A steady-selling soap for ninety years!

Ninety years ago Wright's Coal Tar Soap was the choice of the discriminating shopper—and it is just as highly esteemed today!

There's never been a soap like Wright's-and we never let your customers forget it! This year, in our big new advertising campaign, over 120,000,000 announcements will appear in the leading National Newspapers,

Illustrated Weeklies and Women's Magazines. And new colourful display material is available for your window or counter.

You'll be wise to anticipate a bigger-than-ever demand for Wright's by getting in stocks NOW!

RECOMMEND

Awarded for 50 years the Certificate of Merit of the Royal Institute of Public Health and Hygiene



RIGHT'S

COAL TAR SOAP Ideal for Toilet. Bath and Nursery

WRIGHT LAYMAN & UMNEY LTD., 42-50 SOUTHWARK STREET, LONDON, S.E.I

A new development in the treatment of

MOUTH AND THROAT INFECTIONS

BRADOSOL

ANTISEPTIC LOZENGES

Bradosol is a potent quaternary ammonium bactericide and fungicide, effective in extreme dilution against most pathogenic organisms causing SORE THROATS

- Well tolerated and virtually non-toxic
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Tubes of 20 Lozenges (2/6) Subject to the usual discounts Exempt Purchase Tax Each lozenge contains 0.5 mg. β-phenoxy-ethyl-dimethyl-dodecyl ammonium bromide

Bradosol' is a registered trade mark Reg. user

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Volume 161

APRIL 3, 1954

No. 3867

Incomplete Prescriptions

EXECUTIVE COUNCILS SEND CIRCULAR

CHEMIST-CONTRACTORS are now receiving from their Executive Councils a circular implementing the new policy (see C. & D., March 20, p. 28) for dealing with prescriptions not specifying quantities and

strengths, or not correctly endorsed.

The circular asks them to examine all EC10 prescriptions ordering Schedule IV drugs and to refer any incomplete ones back to the prescriber for endorsement and initialling. Pricage of the prescriber to return the contractors ing officers are to return to contractors any such forms for April. From May onwards they will do so only "if the numbers of such prescriptions are sufficiently low to make it practicable."
Other April prescriptions on which the prescriber has omitted the strength or size, or with endorsements not containing evidence of the prescriber's consent to the size supplied, are to be dealt with, if their return to the chemist is not practicable, by pricing them (with a few exceptions still to be agreed) on the lower strength or size of pack, the chemist being notified.

APRIL DRUG TARIFF **Additions and amendments**

THE following changes are being included in the Drug Tariff, April 1954: Diagnostic nitroprusside tablets (Rothera's tablets), a circular 3-in. diameter glass breast shield and a 1-drachm rectal syringe comprising a rubber bulb with a 2-in, fine vulcanite or rubber pipe are added. The operative date for the addition of disposable vaginal applicators is to be May 1. After that date the permanent plastic type will not be allowed. Elastic adhesive bandages spread with the ordinary plain type of adhesive or with the newer finely porous adhesive may be supplied if the prescriber does not specify a type. Prices are given for the 1-mil and 1.5-mil Luer mount insulin syringes.

PAYMENT ON ACCOUNT 10 per cent. reduction

THE Ministry of Health announces a reduction of 10 per cent, in the on-account payment to chemist contractors under the National Health Service for prescriptions for March and subsequent months. The monthly payment on account to a chemist contractor for prescriptions dispensed in March and succeeding months until further notice is being based on the chemist's average total cost per prescription, including container allowance, from September 1953 as certified by the Pricing Office. The payment on account is being made on 70 per cent. of that month's average, rounded to the nearest penny. For new contractors the minimum payment will be 2s. 6d. per prescription. Specially priced expensive prescriptions are being excluded from the calculation of the average cost. To allow for charges payable by patients, the payment is being reduced by elevenpence three-farthings from each form declared by the chemist contractor.

KEY INDUSTRY DUTY Further list of exemptions

THE Treasury has made an Order, published as S.I. 1954, No. 388, exempting the following articles from Key Industry Duty, for the period April 1-August 18:-

April 1-August 18:—
Scientific glassware, the following:—
Tubing of neutral glass, not being coloured or borosilicate glass, in straight lengths, having an external diameter of not less than 8 mm. and not more than 35 mm. and a wall thickness of not less than 0·3 mm. and not more than 1·5 mm., and being capable of passing a test corresponding with the test for limit of alkalinity of glass prescribed by British Pharmacopæia, 1953.
Chemicals, the following:—
tertAmyl alcohol
3-tertButyl-2:6-dinitro-4-isopropyltoluene

3-tertButyl-2:6-dinitro-4-isopropyltoluene 2-6-Diaminopyridine

Diethyl

iethyl 4-methyl-2-isopropyl-6-pyrimidyl thionophosphate Ethylene glycol monobutyl ether mono-fluorobenzene

Lithium carbonate

Phosphorus pentasulphide containing not more than 0.05 per cent. by weight of material insoluble in 6N ammonia solu-

Sodium 2:4:5-trichlorophenoxide

P.A.T.A. Annual meeting reminder

THE Proprietary Articles Trade Association reminds members of its manufacturers', wholesale and retail sections that the 58th annual meeting of the Association is being held at the Connaught Rooms, Kingsway, London, W.C.2, at 3 p.m. on Thursday, April 8. The Council's report and other matters will be open to discussion.



DUTCH STUDENTS IN BRITAIN: Pharmacentical students from the University of Amsterdam, led by Professor van Arkel, photographed at the House of Commons with Sir Hugh Linstead, M.P., and Mr. F. W. Adams (secretaries of the Pharmaceutical Society) and members of The British Drug Honses, Ltd., on March 29, before leaving to visit the company's laboratories. The party had been entertained to lunch by Sir Hugh.

BUSINESS ARCHIVES Conference in London

BUSINESS archives were the subject of the fifth conference of the National Register of Archives, held in London, on March 24. An exhibition illustrating the work of the National Register included photostats of items from the archives of Savory & Moore, Ltd. A MS. specification and estimate "for Fitting up Pharmacy, Drug Store Room and Private Office at Cairo for the use of His Highness The Khedive of Egypt and the Court," stipulated that the fittings were to be "of the best description, and to be fixed in a thoroughly workmanlike manner..." "The Vessels, appliance and utensils—also the Drugs, Chemical, &c., to be of the best quality and in accord-

ance with all the recent improvements." There were a woodcut and specifications of the improved medicine field panniers "constructed by Savory & Moore by the authority of the Director-General of the Army Medical Department" and a list of contents of a divisional medical wagon supplied to the Army. Also exhibited were Mr. Laurence Dopson's articles on chemists and druggists' archives and on the National Register, on the Savory & Moore documents, and on Mr. J. R. Burdon's pharmacy at Bury St. Edmunds, from issues of The CHEMIST AND DRUGGIST. At the Conference Mr. Raymond L. Hanbury represented Allen & Hanburys, Ltd., and Miss F. V. Clark attended on behalf of Imperial Chemical Industries,

SCOTTISH NEWS

Recipe for Productivity

IF the majority of executives in British industry would take a walk through their departments and make a list of all operations that were not absolutely necessary, the result would be a remarkable and immediate increase in productivity, said Dr. E. J. HOLDER (chairman' of the Management Association of South-east Scotland and managing director, Duncan, Flockhart & Co., Ltd.), speaking at the Association's annual meeting in Edinburgh recently. Dr. Holder said there was a growing awareness among managements in the medium and small firms which produced some 80 per cent. of Britain's output that there was a valuable via media between what they might regard as American "super-hustle" methods, and what the U.S. considers the "too slow" British traditional procedures.

Pension Scheme for Employees

THE Scottish Pharmaceutical Federation has completed arrangements with the Norwich Union Life Insurance Society whereby member firms may provide pension and life-insurance benefits for their employees. The scheme is contributory, with contributions in accordance with wage or salary, and pensions according to service and salary. The amount of the pension at retiral age (sixty for women and sixty-five for men) depends on age at entry, length of service, and wage or salary variations. A booklet des-

cribing the terms and conditions is being issued to each member.

Altered Prescription

AT a meeting of Glasgow Executive Council on March 26, Dr. W. M. KNox (chairman of the Medical Committee) urged the utmost publicity to prevent patients from altering doctors' prescriptions. In a case already decided by the sheriff court a prescription had been changed from twenty-four to 124 tablets. Other and undecided cases contained equally serious alterations. Mr. Andrew Officer (president of the Scottish Pharmaceutical Federation) said that it was only in recent months that that sort of thing had commenced. He suggested that doctors should write in full, and in ink, the quantity to be supplied.

Prescription Charge Collection

AT a meeting of the Shetland Executive Council on March 11, Dr. J. N. Hamilton proposed that the part of the National Health Service regulations which required dispensing doctors to collect the shilling from those receiving National Assistance or disability pensions should be rescinded. In a letter to the Scotsman of March 19, Dr. Hamilton said that to expect doctors to collect the shilling from such people and give a receipt whereby it might be refunded to them at the Post Office was a time-wasting, useless and stupid procedure.



PRESIDENTIAL BADGE: A presidential badge, given by Mr. and Mrs. Noel S. Jones, for the National Association of Women Pharmacists, and past-presidents' badges, were formally presented at Liverpool recently. In the group are Miss B. H. Morris, Miss E. M. Hirst (vice-president), Miss M. Caldecott, Mrs. M. R. Townley (president) receiving bouquet, Miss H. G. Irvine, Mrs. E. N. J. Jones and Miss M. C. Dodd.

LOCAL NEWS

Welsh Conference Excursion

WHILE Welsh pharmacists were in conference at Porthcawl on March 14 (C. & D., March 20, p. 288), their ladies visited St. Fagan's Castle. This old manor house, built on the site of a Norman Castle, was offered to the National Museum of Wales a few years ago, and is now a national folk muago, and is now a national folk interseum. It was opened to the public in 1948 after it had been equipped with a beautiful selection of 16th, 17th and 18th century furniture, tapestries and furnishings of all kinds. The enormous kitchen probably aroused the keenest interest. There were two huge fire-There were two huge fireplaces fitted with spits and outsize dishes and utensils of all kinds. The sizes of the bread crate and bacon rack conjured up a picture of the gargan-tuan meals that were prepared there, and if there were some who sighed for the return of those good old days, the sight of the rushes dipped in mutton fat as the normal means of illumination was probably sufficient to resign them to modern and more frugal times.

Theatre Show for Benevolent Fund

TO raise money for the Pharmaceutical Society's Benevolent Fund, Liverpool Chemists' Association and Branch of the Society are giving a theatre show at Crane Theatre, Liverpool, on April 21. East Wavertree players will present "The Mortimer Touch," a threeact play by Eric Linklater. Tickets, 5s. each, are available from Mr. E. A. Briggs, 255 Woolton Road, Liverpool, 15. Mr. L. A. Butt (president of the Association and chairman of the Branch) is asking members of the Branch to contribute 2s. 6d. each to enable him to send a cheque for £100 to the appeal fund for Birdsgrove House.

IRISH NEWS

St. Joseph's Society

AT the 1954 annual meeting of the pharmacy branch of the St. Joseph's Young Priests' Society held in Dublin on March 9, THE PRESIDENT (Mr. M. D. Walsh) made a plea for more promoters. The report for 1953-54 showed that the membership of the branch was 850, a figure which it was hoped to exceed by the end of 1954. The branch had contributed £248 to the pharmacy students' fund during the year, Subscriptions received during 1953 included: Wholesale, £102; retail, £76; Cork, £53; Limerick, £8 14s.; Waterford, £10 19s.; Drogheda, £8 5s.; and provincial, £15 10s. The adoption of the report was proposed by Mr. P. O'BRIAIN, who promised the fullest support and co-operation of the student body in furthering the Society's work.

College Sweepstake

IN a College of Pharmacy Gaelic Athletic Association Club sweepstake on the Grand National the following were the winners: 1 (£30), Mr. Peter Murphy, Chapel Street, Cookstown, co. Tyrone: 2 (£20), Mr. H. I. Hindley, 4 Vernon Gardens, Clontarf, Dublin; 3 (£10), Miss Hopkins, Sorrento Road, Dalkey.

NEWS IN BRIEF

Wedding Presentation. — Employees of Thornton & Ross, Ltd., Huddersfield, recently presented Mr. Vernon E. Ross with an inscribed canteen of cutlery as a wedding present.

Crown Agents for the Colonies.— The Crown Agents for the Colonies from April 1 are styled "The Crown Agents for Oversea Governments and Administrations."

"Polio Post" Week.—Penny seals for affixing to mail during a "polio post" week organised by Infantile Paralysis Fellowship, June 5-12, may be obtained from the Fellowship, 1 Springfield Terrace, Harrow.

Employers' Insurance Guide. — The Ministry of Pensions and National Insurance has recently published a new edition of the leaflet "Employers' Guide to National Insurance," leaflet N.I.20, available free of charge at local offices of the Ministry.

Scottish Industries Exhibition.—Pharmaceutical and chemical exhibitors at the Scottish Industries Exhibition being held in Glasgow in September will include Boots Pure Drug Co., Ltd., Brent Chemical Products, Ltd., Brentford, the Distillers Co., Ltd., and Imperial Chemical Industries, Ltd.

Statutory Committee.—The Statutory Committee of the Pharmaceutical Society is meeting at 17 Bloomsbury Square, London, W.C.1, at 2.30 p.m., on April 14, to inquire into complaints concerning the conduct of a member of the Society whilst acting as a locum tenens.

Photographic Exhibition.—An exhibition devoted to works from the collection of W. H. Bustin & Son, photographers, Hereford, opened at the Kodak Exhibition Centre, Kingsway, London, W.C.2, on March 29 (closing date, April 23). It contains pictures taken from 1853 to the present day. Admission is free.

Retail Sales in January.—Recently issued Board of Trade figures show that sales of chemists' goods in January were, in independent retail shops, 26 per cent., in large establishments, 45 per cent. less than in December 1953 and 2 per cent, less and 4 per cent. more respectively than in January 1953.

Village Without a Chemist.—At a recent parish meeting at Shepherdswell, nr. Dover, Kent, a resolution supporting the parish council's crusade to have a doctor and a chemist in the village was passed, it being pointed out that the population was now 1,200 and there was no public transport to Eythorne, where the nearest doctor and chemist practised.

Society for Analytical Chemistry.—At the annual meeting of the Society for Analytical Chemistry held in London on March 3, when the membership of the society was reported as 1,646 (an increase of 54 over the previous year), the following officers were elected:—President, Dr. D. W. Kent-Jones; Vicepresidents, Messrs. C. A. Adams, A. J. Amos and T. McLachlan; Treasurer, Mr. J. H. Hamence and Secretary, Mr. K. A. Williams, 7 Idol Lane, London, E.C.3

TOPICAL REFLECTIONS

By Xrayser

Post Prandium

The end of a winter session of associations and branches of various organisations is usually heralded, as it is this year, by an epidemic of festivities. Pages 318-19 of your issue of March 27, laid out with attractive illustrations, invite investigation. When, however, we turn from the pictures to the accompanying text, we are conscious of a certain tamenessof the repetition of "an oft-told tale." Someone-was it Samuel Johnson? once said that a man is not on oath when writing a lapidary inscription. The remark may be applied to after-dinner speeches. Occasionally they give us pause in reading them. At Manchester, for instance, Mr. F. S. Stancliffe suggested that (a) there is no future for Latin in pharmacy; (b) nomenclature can be simplified by giving "drugs and prepared medicines" code letters and numbers. Latin will, I think, be viable in pharmacy for many generations to come. The prospect of substituting code letters and numbers for the present system of designating prescribed substances is calculated to fill prescribers, dispensers and pricers with dismay.

Sections of the American Pharmaceutical Association

The American Institute of the History of Pharmacy has sponsored a reprint (from the American Journal of Pharmaceutical Education, xvii.3.1953) on the evolution of the sections of the American Pharmaceutical Association. This valuable survey of the work of these sections since their formation was begun in 1887 should be read by everyone interested in pharmaceutical organisation. To some extent a demarcation of function was necessitated by the size and activity of the Association's membership; at the annual conferences, for instance, the number of papers presented in the Science Section, averaging not more than thirty during the first forty years, increased to an average of seventy from 1928 onward, and in 1952 reached 120. In the first sixty-five years of the section, monographs on digitalis numbered forty-four; on opium thirty-five; on ergot twentyfour. My space does not permit detailed comment; but it may be noted that, when any modification of sections was effected, the change was dictated by practical considerations. As a committee of the Section on Practical Pharmacy stated in a report in 1915: "Even a restrictive or conservative view of the future's yieldings will show that the final just placement of pharmacy will not come from its separation from trade, for that is impossible."

Legal Standards in the U.S.A.

Another reprint just issued to members of this American Institute is taken from the Food Drug Cosmetic Law Journal for December 1953. In it Dr. Sonnedecker and Dr. Urdang trace the evolution of legislation on standards for drugs, chemicals and related products in the United States. The well-known American Food and Drugs Act of 1906 is comparable, allowing for differences between the legislative systems, with the British Sale of Food and Drugs Act of 1875. It may be regarded as the parent of subsequent Acts on the same subject. Much credit is due to the American Pharmaceutical Association for pioneer efforts to obtain an adequate federal enactment. So long ago as 1869 the Association circulated a "model" Bill making wilful adulteration of any medicinal substance a misdemeanour. Vendors of unopened packages obtained from a supplier were exempt from prosecution in the event of adulteration being proved, unless they knew that the contents were adulterated. In 1872 the state of Rhode Island, which had already made a beginning on the subject, passed a pharmacy law containing phrases closely following the Association's wording. Other states-New Jersey, Colorado and Louis'ana were among the earliest—came into line: a few years after the 1906 Act was passed it was reported that forty-four had adopted "a new pattern of food and drug legislation." That pattern "remained substantially unchallenged until revision of the federal law in 1938."

PHARMACY IN FRANCE

Address to Glasgow Branch

PHARMACIES in France were limited by head of population, said MR. A. W. KEITH, addressing a meeting of the Glasgow and South-western Scottish Branch of the Pharmaceutical Society in Glasgow recently. There were about six pharmacies to every about six pharmacies to 24-25,000 people. Permission required to open a pharmacy (not allowed within 4-500 yards of an-(not other establishment) and a pharmacist was compelled by law to employ another qualified chemist if his turnover exceeded approximately £7,000 a year. That was a costly business, because a pharmacist's average salary was £600 per annum, plus lodging and certain meals, and for an employee earning that amount £180 must be paid by the employer for social insurance. The pharmacist could appeal against that ruling if it were shown that another pharmacy in the same town had a corresponding decrease in business throughout the year. In that case the second chemist would be brought before the committee to explain his loss of business and if it was shown to be due to negligence, he could be warned to improve the position or have the pharmacy taken away from him. The French Government rarely interfered with pharmacy because before a problem reached administrative level it was dealt with through committees entirely composed of pharmacists or doctors and pharmacists. The National Society of Pharmacists dealt with pricing matters. A dispensing fee was assessed by the number of by the number of ingredients in the mixture up to a maximum, when a flat rate operated. An average fee was 1s. 4d. There were strict rules about a pharmacist leaving his pharmacy. He could do so for only six days a year and provided he had a competent staff. Before he left he had to notify the secretary of the committee for the area. An inspector might be sent round to verify the qualifications of the staff and, if unsatisfactory, the pharmacist was instructed to secure a locum or a fourth year student, who was permitted to take charge of a pharmacy for not more than seven days.

Under social insurance in France the insured person (shop proprietors or professional men or retired persons living on unearned income, were not admitted) paid 6 per cent. of his wage or salary to the scheme; when ill, the insured person received 50 per cent, of his pay. In France the insured person had to pay his own medical and pharmacy fees, although he later received a refund of monies expended, about 80

per cent. of the total.

There were, said Mr. Keith, no multiple concerns in France. Pharmacy was a profession and the chemist argued that he did not wish to sell his Pharmacists in skill to shareholders. France enjoyed a higher reputation and status than in Britain; for that the German occupation of 1940 was largely responsible. The Germans forced the then Government of France to raise the status of pharmacists. Describing a pharmacy of the larger type in a provincial town, the speaker said that the premises occupied the corner site in the

main street and were well laid-out and equipped. The proprietor had gained degrees of Doctor of Medicine, Pharmacy and Dentistry, as well as two or three degrees in law; nevertheless, he preferred to engage himself in pharmacy as the most interesting of the careers he could select.

There were in France at present 5-6,000 proprietaries and only about 30 per cent. of the total business was dispensing. No dispensing fee was allowed for packed proprietaries and because of the great variety of that class of goods, the pharmacist was compelled to carry perhaps £10-12,000 worth of stock. A pharmacist in France rarely wished to sell his business but if, through illness or retirement he did so it would be a retired. ment, he did so, it would be advertised in the normal way, but the purchaser would have to apply to the committee for permission to take over and provide satisfactory evidence of his integrity. Because pharmacy was regarded so highly, banks were ready to lend money to any young pharmacist starting a business.

Although it might seem from figures quoted that pharmacists in France did not make a large income, they could procure good profits on their own proprietaries once those had been proprietaries once those had been passed by the committee, and the analytical work they did also formed a large proportion of their gains.

IRISH PHOTO DEALERS

New membership test for P.D.A. Branch

A SPECIAL meeting of the Irish branch of the Photographic Dealers' Association held in Dublin, on March 22, unanimously adopted a rule restrict-

22, unanimously adopted a rule restricting membership of the branch to:

Î. Persons holding the intermediate certificate of the P.D.A. and who have served two years in the retail photographic trade with employers themselves eligible for membership (applicants will be required to sign an agreement that it is intended to carry on photographic; photographic and optical; or photographic, optical and pharmaceutical business only).

2. Pharmaceutical chemists, dispensing

2. Pharmaceutical chemists, dispensing chemists and druggists, or registered druggists in retail business.

3. Retail opticions.

3. Retail opticians or opticians who have served two years in the employment of a P.D.A. member or retail optician.

For companies, at least one director must be employed full time in the business and hold the qualifications necessary for individual membership. Branch shops of members are to be open to membership if the manager is eligible. Partnerships can join if one partner is employed full time in the business and is eligible for individual membership. Applicants for membership must satisfy the branch committee that their premises are suitable (on the ground floor and with proportionate window space for display). expulsion rule gives the P.D.A. Council power to have a person expelled if he ceases to observe the conditions governing admission and fails to give a satisfactory explanation and a written

undertaking to comply in future.

Moving adoption of the new rule,
MR. J. A. HURSON, Dublin, said that
since the rules of the P.D.A. had been
made there had been great changes.
The breach was receiving conditions. The branch was receiving applications for membership from sweet shops, radio dealers, etc. He had discussed the rule with the membership committee in London and the committee was prepared to accept the rule for the

branch. MR. G. W. IRWIN, Blackrock, was told by THE CHAIRMAN that the rule did not put compulsion on manufacturers to supply only to members, though they might be influenced by it. At the 1954 annual meeting of the

At the 1934 annual meeting of the Branch, held previously, Mr. LYALL G. SMITH, who presided, said that, as a result of the Branch's representations, Kodak, Ltd., had decided to postpone to May 1 the date upon which

the reduced price of their films would come into operation.

Mr. Vance complained about camera manufacturers and distributors who reduced prices without giving sufficient notice or compensation by way of re-bates. It was decided that the incoming committee should take the matter up with distributors.

At a meeting of the committee held after the annual meeting Mr. Peter Slattery was elected *Chairman*, Mr. A. C. Hennessy *Secretary* and Mr. J. A.

Hurson Treasurer.

WORK STUDY Chemical industry conference

THE proceedings of a work study conference organised for members of the Association of British Chemical Manufacturers and held at Buxton in October 1953 have just been published.

The conference was largely inspired by recommendations made in the report of a heavy-chemical-industry productivity team that visited the United States in 1952 (C. & D. 1953. I. 89). In that report the team recommended that each company should "make the widest use of work study, particularly for the improvement of process, maintenance, packing and materials hand-ling methods, for labour and cost control, and for the proper planning and manning of jobs coupled where appropriate with financial incentive schemes." The team also recommended priate that the Association should advise the industry on the facilities available for obtaining proper training on chemical processes and chemical plant maintenance. Although addressed to the heavy chemical industry those factors were thought to apply equally well to all other sections of the chemical industry.

Imperial Chemical Industries, Ltd., and their specialists were largely responsible for the papers that were read at the two-day conference.

To follow up the work begun at Buxton, the Council of the A.B.C.M. has appointed a work study advisory committee, the members of which are Dr. D. E. Wheeler (chairman), Mr. N. H. Dennis, Dr. W. G. Hiscock, Mr. J. Grange Moore and Mr. B. White. (Copies of the proceedings may be obtained from the Association price

obtained from the Association, price 7s. 6d. to members and 12s. 6d. to nonmembers.)

HEALTH SERVICE ESTIMATES AND COSTS

English and Welsh pharmaceutical figures down, Scottish up

THE Civil Estimates for the year ending March 31, 1955, published recently, show that the pharmaceutical services under the National Health Service in England and Wales are expected to cost £154,000 less in 1954-55 than the 1953-54 estimate. In Scotland the estimate shows a comparable rise of £223,000. The figures for the three countries are summarised in the table below:-

The biggest increase is in the advances to hospital boards in England and Wales amounting to £9,562,000. In Scotland the hospitals will receive an extra £1,300,000.

Administration expenses of Executive Councils in England will be £2,223,200 (an increase of £5,200); in Wales £161,500 (a decrease of £600); and in Scotland £357,000 (a decrease of £15.010).

ANALYSIS OF PHARMACEUTICAL SERVICES COSTS

ITEM	ENGLAND		WALES		SCOTLAND		
	Estimate 1954-55 £'000s	Difference from 1953-54 £'000s	Estimate 1954-55 £'000s	Difference from 1953-54 £'000s	Estimate 1954-55 £'000s	from 1953-54 £'000s	
(a) Pharmacists (i) Dispensing fees and rota payments (ii) Cost of ingredients		626 more	837	30 more	1,555	95 more	
and containers al- lowance	24,454	236 less	2,066	29 less	3,283	147 more	
(iii) Allowance for over- heads and profit	5,845	75 less	495	12 less	778	34 more	
(b) Medical and dental practitioners (c) Health Centre services	1,620	40 less	130	20 less	120	20 more 3 less	
Payments by patients	6,056	384 more	431	14 more	740	70 more	
Total	36,964	109 less	3,097	45 less	5,000	223 more	

The general medical services will cost £49.498 millions in England (an increase of £1.221 millions); £3.391 millions in Wales (an increase of £71,000); and £6.718 millions (an increase of £98,000) in Scotland. The estimate for the National Health Services of the Nat vice as a whole in England and Wales shows an increase of £11,683,365 to £384,215,685 and for Scotland an increase of £1,773,242 to £48,917,800.

An approximate analysis of estimated expenditure by hospitals in England and Wales shows that drugs, dressings and medical and surgical appliances will cost £14.026 millions (compared with revised estimate of £13.939 millions for 1953-54). For teaching hospitals the comparable figures are £3.216 millions (£3.197 millions). In Scotland, estimated expenditure by hospitals on drugs and dress-

millions (£1.560 £1.637 millions); and on surgical appliances, etc., £512,000 (£345,000).

In directly administered hospitals, etc., in England and Wales, drugs and vaccines are estimated to cost £516,450 (£335,200) and general medical and surgical stores and appliances £286,750

In Scotland purchase of certain special drugs, etc., will cost £30,000

(£40,000).

Cost of preparation in England of lymph will be £11,220 (£10,800); of toxoids, etc., supplied for immunisation purposes, £20,000 (£30,000); of preparation of plasma and other blood products, £42,500 (£35,000).

Capital expenditure on the Public Health Laboratory Service in England will remain the same at £120,000, while current expenditure rises by £40,000

to £930,000.

A grant-in-aid to the Medical Research Council amounts to £1,947,109 (against £1,805,846). Special grants to be made by the M.R.C. in 1954-55 include £150,000 (same as 1953-54) to the Royal Cancer Hospital for research on cancer; £1,000 (same) for Anglo-American investigation of rheumatic fever; £1,000 (£2,000) for cortisone and ACTH.

The Ministry's grant-in-aid to the World Health Organisation will be

£343,950 (£345,950).

The estimates are published by H.M. Stationery Office, York House, Kingsway, London, W.C.2, price 5s. 6d.

Scottish organisations' evidence to costs inquiry committee

THE Scottish Association of Executive Councils in its memorandum of written evidence on the cost of the National Health Service to the Guillebaud committee, published on March 19, states that the present division of the National Health Service into local health authority, hospital, and general practitioner branches presents opportunities for friction, overlapping and extravagance. The association cites one cause of friction "the apparent freedom of specialists to prescribe or recommend prescribing without regard to cost or efficiency." The memorandum applauds the decision of the Department of Health for Scotland to produce and circulate information on the prescribing of individual doctors (see C. & D., March 6, p. 225) but insists that there is no satisfactory alternative to full pricing and ful analyses of prescribing costs. The cost of producing full information might be substantial, they observe. Since the beginning of the service the cost of not producing it has been enormous.

Rise in costs

The memorandum shows that in the last year of the National Health Insurance scheme the number of prescripsubsequent years:—1948 (July to December), 6,600,000 (average 3s. 6d.);

17,117,000 (4s. 1949, 17,117,000 (4s. 1d.); 1950, 19,505,000 (4s. $4\frac{1}{2}$ d.); 1951, 20,787,000 (4s. 7d.); 1952, 20,389,000 (5s. $2\frac{1}{4}$ d.); 1953. (January to June), 10,580,000 (5s. 4d.). "The public clearly are insatiable users of drugs," concludes the memorandum. "Every endeavour should be made by reasonable supervision to divert part of the present vast expenditure on drugs towards the building up of good health, particu-larly by physical education among adolescents leaving school. Although there is a wellnigh superstitious faith in the efficacy of drugs and a belief that a prescription must follow every consultation it should yet be possible in time ation it should yet be possible in any to convince the public that the most valuable services available under the Act may be experienced guidance in exercise, relaxation, diet, cleanliness, and temperate living.

Doctors' memorandum

The Scottish committee of the British Medical Association in its memoran-dum of evidence to the Guillebaud committee, states that the charges for medicines, dressings and spectacles have not discouraged any genuinely needed consultation. The committee states its belief in the effectiveness of area statistics now to be supplied in Scotland (C. & D., March 6, p. 225) and suggests that a similar procedure should be applied to the hospital service. No measure should be taken, however, continues the memorandum, which would infringe the fundamental principle that a doctor must be free to prescribe whatever he conscientiously believes to be essential for the efficient treatment of his patient, provided he can justify its use. The committee ad-vocates the education of the public in leaving to the doctor to decide what and when to prescribe. Reference is made to the lack of attention in medical schools to the "art of economy of prescribing." "There is a tendency to forget," says the committee, "that the exhibition of many of the modern drugs, apart from saving lives, materially shortens many illnesses. Thus regarding the matter from a purely economic standpoint, the high cost of those drugs may actually be more than offset by the saving in sickness benefit and in time lost to productive work." It is noted that part of the cost of proprietary preparations must be related to the research undertaken by the firms which produce them; and the benefit of that research to the community, and the export trade is stressed. It is questhe export tatte is sitessed. It is ques-tioned whether such subsidising of pharmaceutical research and export should come within the National Health Service accounts. The commit-tee recommends that a charge should be made for containers supplied under the Health Service.

COMPANY NEWS

Previous year's figures in parentheses

FISONS, LTD. — Following the company's offer to acquire the ordinary share capital of Pest Control, Ltd. (C. & D., March 13, p. 256), acceptances have been received from the holders of more than 90 per cent. of the shares and the offer thus becomes unconditional.

BRITISH OXYGEN CO., LTD.—An unchanged final dividend of 9 per cent. is recommended making 15 per cent., less tax (same), on the ordinary capital for 1953. Group trading profit is £4,324,975 (£3,975,092) after depreciation, £2,007,312 (£1,602,284) according to preliminary statement.

IMPERIAL CHEMICAL INDUSTRIES, LTD.—Applications for the £30 millions unsecured loan stock (C. & D., February 27, p. 206), were received from 52,821 applicants for a total amount of £304·6 millions. Applicants for less than £1 million of stock will be allotted 10 per cent. of the amounts applied for, with a minimum of £50.

EVANS MEDICAL SUPPLIES, LTD.—Subject to audit, the group trading and manufacturing profit for 1953 is £233,426 (£182,010). After taxation, £72,904 (£15,634) and other charges, £102,618 (£101,784) net profit is £57,904 (£64,592). Final dividend recommended on ordinary capital is 7½ per cent. making 10 per cent., less tax (7½ per cent. total).

APOLLINARIS CO., LTD. and BOVRIL, LTD.—The directors of the two companies announce that negotiations have reached an advanced stage for the purchase by Bovril, Ltd., of that part of the business of the Apollinaris Co., Ltd., relating to the manufacture and marketing of fruit squashes sold under the names of Gold Cup Jaffajuce and Four Seasons. A further announcement will be made when the negotiations have been concluded.

DISTILLERS CO., LTD.—As part of the reorganisation of the industrial side of the company the Carbon Dioxide Co., Ltd., ceased to trade as a separate company on April 1, 1954. From that date the whole of its business was transferred to a new division of its parent company and conducted in the name of the Carbon Dioxide Co.—a division of the Distillers Co., Ltd.

New Companies

P.C. = Private Company; R.O. = Registered Office

RALPH DANCY, LTD. (P.C.).—Capital £5,000. To carry on the business of wholesale and retail chemists, etc. Directors: Charles A. E. Moody, M.P.S., Margery E. Moody, John T. E. Moody and Clement G. Hopper, M.P.S. R.O.: 205 Rotherhithe New Road, London, S.E.16.

J.P.M. PHARMACEUTICALS PTY., LTD.—Capital £10,000. Registered in Sydney, New South Wales. To carry on the manufacture and sale of medicines and medical preparations, etc. British address: 12 Duke Street, London, S.W.1. Directors: Augustine J. Fitzgerald, Pamela J. Fitzgerald and John G. Fitzgerald.

LEGAL REPORTS

Acquitted.—At Leeds, on March 23, Morris Hunterman, M.P.S., The Avenue, Alwoodley, Leeds, a director of Hunter's Chemists, Ltd., Briggate, Leeds, and Gerald Price, an assistant at the pharmacy, were acquitted on charges of supplying a drug to a Leeds housemaid knowing it was to be used to procure a miscarriage.

Pharmacy Act Fines.—At Chapel-enle-Frith magistrates' court recently,
Archibald Frederick Waterhouse, The
Laboratory, Hope, Derbyshire, was
fined £2 for selling codeine (in Cogene
tablets) without being authorised to do
so, and £2 for selling a poison in a
container not labelled in the prescribed
manner. The prosecution stated that
the defendants carried on a business
for the sale of proprietary medicines.
Waterhouse, though he admitted to an
inspector that he knew the Cojene tablets contained codeine, had said he
thought he could sell them.—At West
London magistrates' court recently the
London Co-operative Society, Ltd.,
were fined £15, with £3 3s. costs, for

selling a tin of codeine linctus pastilles otherwise than under the supervision of a pharmacist.

BUSINESS CHANGES

J. H. WISEMAN & CO., LTD., have removed to 40 Lower Clapton Road, London, E.5 (temporary telephone number: Amherst 6862).

CLIFFORD PACKAGING MACHINERY, LTD., 113 Regent's Park Road, London, N.W.1 (telephone: Primrose 6688), has taken over the entire export of Newman labelling and gumming machines.

PHARMAX, LTD., Organ Works, Old Hill, Chislehurst, Kent, advise that they will not now be in final occupation of their new premises at Bexleyheath (C. & D., March 20, p. 290) until April 12.

Appointments

AUTOPACK, LTD., Birmingham, have appointed the following agents:—Mr. John Deas, 11 Lynedoch Crescent, Glasgow, C.3; Mr. R. R. Britton, Memorial Road, Hanham, Bristol.

THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

MR. W. D. CHAPMAN asked THE PRESIDENT OF THE BOARD OF TRADE ON March 25 if he would institute proceedings against the manufacturers of toilet preparations mentioned in a report of the Birmingham city analyst (see C. & D., March 27, p. 330). MR. PETER THORNEYCROFT (President of the Board of Trade): If I can obtain satisfactory evidence of the offer of those goods for sale, I shall certainly consider instituting proceedings.

Purchase Tax on Postage

MR. H. B. H. HYLTON-FOSTER asked the Chancellor of the Exchequer if, in his forthcoming Budget, he would consider ensuring that purchase tax was not charged upon the cost of postage of goods.

MR. BOYD-CARPENTER (Financial Secretary to the Treasury) in a written reply on March 29: Purchase tax is levied by law on the wholesale value inclusive of the cost of delivery. This is convenient to traders generally because it avoids separate computations in the many cases where goods are sold at delivered prices. Certain special postal and delivery charges have been ignored in computing tax since October 1, 1953, in accordance with a recommendation of the Grant Committee.

B.I.F. Bill in Lords

In the House of Lords on March 25, LORD MANCROFT moved the second reading of the British Industries Fair (Guarantees and Grants) Bill, which has passed through the Commons (see C. & D., February 27, p. 207). He said that too many exhibitors did not seem to realise the damage they did to British prestige by exhibiting shoddy goods. The Bill would not enable the Fair automatically to display the best possible goods, but would offer some encouragement, and would discourage those who were not prepared to put their best goods on show. LORD LUCAS

said that Earls Court was the most wretched building he had ever seen for exhibitions, its amenities were deplorable and the catering arrangements a disgrace.

Food and Drugs Bill

During the third reading of the Food and Drugs Amendment Bill in the House of Lords on March 30 LORD BURDEN moved an amendment in the name of LORD WALERAN to retain the defence for supplying something that was not pure that the drug supplied was a proprietary medicine and was supplied in accordance with the demand of a purchaser (see C. & D., February 27, p. 207). LORD BURDEN said that LORD CARRINGTON had informed the House on February the Associations concerned had agreed to the abolition of the defence. He accepted that that statement had been made unwittingly. The associations had since considered the matter and wanted that defence retained. Under the National Health Service official medicines were being built up on proprietary medicines. A doctor might prescribe an official medicine and inadvertently the chemist might sell a proprietary medicine which might be better but would not be the official medicine. Legal action might ensue and another terror was added to the life of the person concerned.

LORD WOOLTON said that the trade had been consulted and it had been thought that they had agreed; in fact they had not. He did not think that anyone was entitled to stand behind a proprietary label. The public had a right to protection.

The amendment was by leave with-

The Bill was passed and sent to the House of Commons.

The Price Control (No. 1) Bill (see C. & D., February 20, p. 181) was withdrawn on March 8.

PERSONALITIES

MR. ERIC STEIN (chairman, chemical group, Distillers Co., Ltd.), has been co-opted a member of council of the Association of British Chemical Manufacturers.

MR. FRED HINDLE has retired from the secretaryship of the Lancashire Pharmaceutical Committee. The new secretary is Mr. A. Medcalfe, 1 Endsleigh Grove, Lancaster.

IN a note of board changes at Boots Pure Drug Co., Ltd. (C. & D., March 27, p. 313), the portraits of Mr. L. Anderson and Mr. S. Harker-Smith were inadvertently transposed. Subscribers who file their copies are asked to reverse the captions.

DR. ALEXANDER MACDONALD (reader in bacteriology at Liverpool University) has been appointed professor of bacteriology at Aberdeen University. He was formerly for five years director of the Medical Research Council's public health laboratory at Norwich.

INQUESTS

Barbiturate after Alcohol. — A verdict that Gerard Patrick Power, a company director, Lapworth, nr. Birmingham, died by misadventure after he had administered to himself an overdose of barbiturate sleeping tablets while under the influence of alcohol, was recorded by the Mid-Warwickshire coroner at Hatton recently.

Insecticide Through Skin. — A verdict of misadventure was recorded at an inquest at Weymouth recently on a gardener who was found dead in bed the morning after spraying fruit trees with an insecticide. The Forensic Laboratory, Bristol, stated that it was known that a toxic amount of the insecticide could be absorbed through the skin.

Depressed by Unemployment.—At an inquest at Westminster, London, recently, a verdict of suicide while the balance of his mind was disturbed was returned on Cecil Potter Mackenrot, M.P.S., who had been found dead in a gas-filled room at his home in Sutherland Place, Paddington. It was stated that he had recently been depressed because he could not find employment.

WILLS

Mr. C. M. A. Bell, 22 Beckenham Grove. Shortlands, Kent (managing director, Charles Zimmermann & Co., Ltd.), left £28,938 (£28,306 net).

MR. F. Mallinson, M.P.S., 397 Heysham Road, Morecambe and Heysham, Lancs, left £3,823 £3,761 net).

MR. G. A. MALLINSON, O.B.E., M.P.S., barrister-at-law. 3 Roseberry Avenue, Hampden Park, Lastbourne, left £22,097 (£21,881 net).

MR, C. E. J. SENDALL, M.P.S., Inglegarth, Prescot Road, Aughton, Lancs (formerly a director of Evans Medical Supplies, Ltd., Liverpool), left £7,019 (£6,904 net).

MR. E. J. T00600D, 41 Green Lane, Purley, Surrey (formerly chairman of William T00g00d, Ltd., glass-bottle manufacturers and druggists' sundriesmen), left £3,197 (£2,362 net).

MR. R. S. WHIPPLE, 6 The Old Hall, Highgate, London, N.16 (twice president of the Scientific Instrument Manufacturers' Association, president of the Optical Society in 1920-21 and former v'cc-president of the Institute of Physics) left £88,170 (£84,025 net).

DEATHS

BETTS.—At his home on March 17, Mr. Charles Frederick Betts, M.P.S., 724 Mansfield Road, Woodthorpe, Nottingham, aged fifty-seven. Mr. Betts had been in business in Woodthorpe for twenty-five years. He is survived by his widow and a daughter.

BROWN.—On March 23, Mr. Hugh Brown, 112 East Dulwich Grove, London, S.E.22, aged seventy. Mr. Brown had for many years represented W. Sutton & Co., Druggists' Sundries, London, Ltd., in the West end of London.

CAINE.—On March 4, Mr. Ernest Price Caine, M.P.S., 16 Queen Victoria Street, London, E.C.4. Mr. Caine qualified in 1924.

CARTER. — On March 15, Mr. Samuel Carter, Glenant, Pendarves Road, Penzance, Cornwall, aged eightysix. Mr. Carter qualified as a chemist and druggist in 1890 and was in business at 27 Market Place, Penzance, from 1896 until he retired in 1938.

CROWTHER.—Suddenly on March 24, Mr. Herbert Furnival Crowther (a director of Optrex, Ltd.), 7 Holly Terrace, Highgate, London, N.6, aged fifty-six.

HEDGES.—On October 3, 1953, Mr. Robert Frank Hedges, M.P.S., 2 Stevenstone Court, St. Giles-in-Wood, Torrington, Devon. Mr. Hedges qualified in 1927.

IONES.—On March 16, Mr. Edward Rees Jones, F.P.S., 205 Hangleton Road, Hove, 4, aged seventy-eight. Mr. Jones qualified as a chemist and druggist and passed the Pharmaceutical Chemist examination in 1897.

MAYCOCK.—On February 1, Mr. William Robert Payler Maycock, M.P.S., 36 Argyll Street, Kettering, Northants. Mr. Maycock qualified in 1922.

STOREY.—On March 19, Mr. Arthur Harold Storey, L.P.S.I., 51 Knockvale Park, Knock, Belfast. Mr. Storey qualified in 1914. He was for many years in charge of the city dispensary in Glengall Street, Belfast. He made a study of graphology and on several occasions gave evidence in the courts in cases in which the identification of handwriting on letters and documents was a main issue.

WALL.—Recently, Mr. Arthur Wall, M.P.S., 221 Chester Road, Hulme, Manchester, 15. Mr. Wall qualified in 1905. The funeral service at St. George's Church, Hulme, followed by interment at Stretford cemetery, was attended by Mr. H. Steinman (a member of the Pharmaceutical Society's Council and chairman of the Manchester Pharmaceutical Committee), Mr. A. E. Thorpe (secretary of the Manchester Pharmaceutical Committee) and Mr. J. T. Glass (secretary and clerk to the Manchester Executive Council).

READING BRANCH TO THE FORE

A notable day for the officers

MARCH 17, 1954, will be long remembered by the officers of the Reading Branch of the Pharmaceutical Society—not because it was St. Patrick's Day, but because they were guests of the mayor at luncheon, privileged sight-seers at Reading's new technical college in the afternoon, were entertained to tea in the mayor's parlour, and in the evering were hosts at the annual dinner and dance of the Branch.

At the dinner in the evening a toast to the mayor and corporation of Reading was appropriately first. It was proposed by MR. W. E. C. McIlroy, C.B.E., J.P., chairman both of the local Executive Council and of the Reading hospital management committee. Mr. McIlroy said that, when Reading was called upon to set up bodies under the National Health Service Act, it was able to draw on men and women experienced in public life and with a high tradition in municipal administration. Reading, he said, was foremost in educational developments. She was now pressing for a department of pharmacology at the new technical college. In the training there of young men and women the hospital management committee would collaborate in every way. It was also Reading's aim to keep people out of the hospitals by generous ancillary services, such as physiotherapy, chiropody, and provision for the old. Between sections of the Health Service overlapping and rivalry were apt to occur, but in Reading they were successful in bringing them together and smoothing out differences. Mr. McIlroy concluded with a tribute to the profession of pharmacy.

In his reply as mayor, COUNCILLOR F. LEWIS, J.P., hoped the new technical college would become one of the major technical institutions in the south of England. The college had already a large scientific department, was "doing something in microbiology," and would be only too pleased to have a department of pharmacology.

"The Pharmaceutical Society" was proposed by Mr. H. D. FITCH (Branch chairman), who referred to the Society's increased fees and new by-laws. The by-laws, he said, embodied two amendments put forward by Reading Branch, which could also claim to have secured the "starless" voting papers that would this year come into use. The Society could be justly proud of its new production the British Veterinary Codex, which he knew would be valuable to "the country's largest industry." Berkshire was still largely an agricultural county, and farming and the veterinary profession were represented there that evening. In Reading, pharmacists were perturbed at the lack of entrants to the profession. They believed the cause was the lack of training facilities locally.

MR. T. HESELTINE (president of the Society) responded. He was delighted that the Branch, which he referred to amid laughter as "working quietly" and "unknown at headquarters," was securing for pharmacy in the town the evident recognition by the civic authorities and kindred professions that the long list of distinguished guests be-

tokened.

Dancing followed until midnight.

AN AUTOMATIC PIPETTE FILLER

MANY fluids are either dangerous or unpleasant to measure by means of the ordinary pipette using suction from the mouth. Caustic acids and alkalis, substances such as hydrocyanic acid and cyanides and dimethyl sulphate, which give off lethal fumes, and fluids such as ammonia and formaldehyde, which evolve irritating vapours, are examples. The use of an ordinary rubber teat does not give enough suction to fill a pipette of more than a few mils' capacity, and automatic pipettes previously available have been elaborate and expensive.

A safety pipette-filler, the Pumpett, has been introduced by the Shandon Scientific Co., 6 Cromwell Place, London, S.W.7. To attach the pipette, the fingerplate (4 in Fig. 1) is pressed in and the pipette is introduced until it rests securely against the rubber cone 7, after which the fingerplate is released. For filling and measurement, the Pumpett is held with the second finger resting under the finger-rest 2. The rubber bulb is pressed in with the

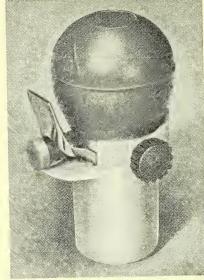


Fig. 1: The Pumpett.

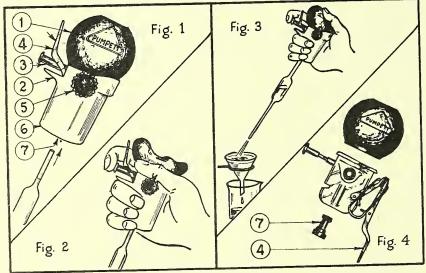


Fig. 2: Construction and method of use.

thumb, air being forced out through the air-hole in the valve 3, which is then closed by pressing on it gently with the index finger. It is important that the finger should cover the hole without pressing the valve. The exact volume can be adjusted either with the valve or by means of the fine adjustment screw 5, the thumb being used for this operation. The pipette can be emptied by gravity if the Pumpett is held as shown in Fig. 2 and the valve is pressed in, pressure being applied on the edge so that the air-hole remains open. Both the index and second fingers may be used, the hole being between them. To empty the pipette rapidly, as, for example, when rinsing it or when washing a precipitate on a filter, as shown in Fig. 3, the liquid is forced out by pressing on the valve and closing the hole with the finger, the rubber bulb being pressed in at the same time.

If a corrosive liquid enters the pump it can be removed by taking the appa-

ratus to pieces, as shown in Fig. 4. That is done by loosening the screw, taking off the body 6 and then removing the valve 3 and the rubber bulb 1. The fingerplate 4 can then be swung round and thus all parts of the apparatus become visible and readily accessive.

sible for cleaning.

Mr. T. D. Whittet, F.P.S., to whom the Pumpett was submitted for trial, writes:—I tried out the Pumpett for the usual procedures normally carried out with suction by mouth and found it relatively easy to acquire the technique of using the device. At first, before I learned the correct method of controlling the valve, I was liable to draw liquid into the bulb. Later it became as easy to use the Pumpett as to pipette by the conventional method. Being ambidextrous, I was able to test out the apparatus using each hand, and soon found it quite easy to operate with either. All that is necessary to convert the Pumpett into a "lefthanded" instrument is to change the

screw 5 from one side to the other. The apparatus will certainly be most useful for dangerous and unpleasant liquids, and for pipetting biological fluids when there is a danger of the amylase of saliva causing false results if it should be allowed to contaminate the fluid. For ordinary routine use it might be difficult to persuade those accustomed to the usual suction pipette to adopt the new device, but the Pumpett is certainly a more hygienic method of pipetting.

PHOTOGRAPHIC NOTES

A Popular Camera with Latest Features.—Amplion (1932), Ltd., 230 Tottenham Court Road, London, W.1, point out that their Dacora Digna Minor camera has synchronised shutter (speeds B or I), body shutter-release, apertures f/8 and f/11, coated lens, built-in viewfinder and accessory shoe, and self-erecting lens head. The camera takes twelve exposures on a 120 film and the price is modest.

Second Edition. — 101 attractively printed pages and an index make up the second edition of "The New Home Photography" written by A. R. Pippard, B.Sc., and K. P. Macdonnell and published by Johnsons of Hendon, Ltd., Hendon Way, London, N.W.4. The first section of the book introduces the amateur to portraiture, landscapes, action photography, etc., and the second to developing and printing.

Viewer for Radiographs.—The new Kodak illuminator, model 70, is for 70-mm. radiographs. It can also be used for viewing small colour transparencies or individual dental radiographs. The illuminator is pivoted in a stirrup fitting, which allows the user to tilt it to the most convenient angle, and the whole is held firmly in a sturdy horse-shoe-shaped stand with non-slip felt base. The viewer comprises a lamphouse on whose front is a black plastic disc with central opal Perspex aperture, 62 mm. (approx. 2½ in.) sq., bounded on two sides by small runners. The runners enable the user to view 70-mm. radiographs and transparencies, whether mounted or unmounted. The makers are Kodak, Ltd., Wealdstone, Harrow.

New-type 3-D Camera.—Dufay, Ltd., Boreham Wood, Herts, are shortly marketing in this country a new-type Coronet 3-D binocular camera that has enjoyed great success in the United States and Canada. Its binocular view-finder makes sighting the subject extremely easy and avoids the need to close one eye. The shutter has been re-designed for greater efficiency, and the body is entirely in black plastic. Two models are being made available: an unsynchronised (for snapshotting only) and a synchronised model for use with flash. All future models of the Coronet and Conway cameras marketed by Dufay, Ltd., are being adapted to take the company's new bayonet-type Coroflash Synchro-gun. (The slot type remains available for F20 camera users.) For both cameras the plastic-type viewer with optical ground and polished lenses is available at a slight extra charge.

NEW PRODUCTS AND PACKS

A New Pholcodine Preparation. — John Bell, Hills & Lucas, Ltd., Worsley Bridge Road, London, S.E.26, announce the introduction of John Bell's compound pholcodine tablets (aspirin and phenacetin compounded with pholcodine instead of with codeine). They point out that the new tablet is less inclined to constipate and has improved sedative qualities, as well as being antipyretic and analgesic.

A Lavatory Cleanser. — The latest addition to the Chemico range of



household cleansing materials produced by the County Chemical Co., Ltd., Shirley, Birmingham, is Chemico

Redesigned Pack. — Bengers, Ltd., Holmes Chapel, Ches, are now issuing Benger's food in a new tin specially designed for counter appeal. The lid is printed with the words "Take Benger's food as a nightcap."

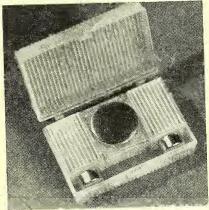


Pakolor in Ireland. — Two stations equipped with the latest photo-electronic equipment for processing Pakolor films will shortly be in full operation in Ireland. Associated British-Pathe, Ltd., Wardour Street, London, W.1, announce that a station in Belfast, operated by Hall & Home, is already in operation. The second, in Dublin, is being opened within a few weeks by J. Roche & Co., Ltd. Dr. K.: I. Jacobsen, one of the initiators of the Pakolor process, and Mr. Thomas Ebeling (sales manager), recently visited

lavatory cleanser, an alkaline, noncorrosive product harmless to pipes,

corrosive product enamel bowls and plastic ware. The product is presented in the tall tin illustrated, which is printed in the delicate pastel pink identified with the Chemico range. The cleanser retains its crystal form and does not solidify in use or in the container.

Vanity Case in Polythene. — A new addition to the range of Poly-tainers issued by Industrial Appliances, Ltd., 21 Grosvenor Street, London, W.1, is



the vanity case illustrated. The case contains two bottles for liquid and one for cream, fitting firmly into the case.

Improved Home Perm. — Richard Hudnut, Ltd., Power Road, London,





W.4, announce an "all-new" Richard Hudnut home permanent with beautyrinse neutraliser—"the only neutraliser with a built-in conditioning creme rinse." Messrs, Hudnut claim that no home perm on the market is now faster from start to finish than their own. The new product offers a choice of three methods: (a) The "salon" method, by which the curls, still wet from waving lotion, are saturated with beauty rinse neutraliser and then more of the neutraliser is poured several times over the rest of the hair; (b) the "dry-on-curler" method, by which the neutraliser is allowed to dry on the hair, which is then rinsed with water and allowed to dry; (c) the "pin-curl method," in which the beauty rinse neutraliser is poured through the lotion-saturated pin curls, which are then rinsed with water.

Now Available in Bulk.—Genatosan, Ltd., Loughborough, Leics, announce that their braxy blackleg vaccine is now available in 100-c.c. and 250-c.c. bottles.

TRADE NOTES

both stations, and while in Dublin Dr. Jacobsen gave a talk on Radio Athlone on the technique of colour photography. Dr. Jacobsen has been invited to address the members of the Photographic Society of Ireland during its centenary celebrations at the end of April.

Point-of-Sale Displays. — New displays for Flit products, the makers of which are Stemco, Ltd., 128 Albert Street, London, N.W.1, comprise a quickly affixed transparent sticker for the window; a crowner shaped like a house to make the 8-oz. tin into a display unit and a counter stand ac-

commodating 8-oz. Flit, 2-oz. Flit powder in new puffer pack and new 4-oz. Flit aerosol. Two additional counter display units hold three of the new 4-oz. Flit aerosol or two of the new 2-oz, puffer pack Flit powder. To qualify for the Flit a n n u a l bonus scheme, orders must be placed so that delivery can be made by April 30.

Pack and Price Change.—C. Wiles, Ltd., Woodmansey, Beverley, Yorks, are now issuing their Wiles' cat and dog foods in new packs at reduced prices.

Reintroduced.—Evans Medical Supplies, Ltd., Speke, Liverpool, 19, have reintroduced under the name Picoplast their coal-tar paste. Picoplast is available in pots of 100 gm.

A New Strength.—Boots Pure Drug Co., Ltd., Station Street, Nottingham, have made available an 80-unit strength of insulin-zinc suspensions—Boots (amorphous and crystalline). Both types are available in 10-mil vials.



Bonus Offer.—Until June 30, B.G.P. (Cosmetics), Ltd., 37 Chesham Place, London, S.W.1, are allowing an extra bottle of Lip-Cote, standard size, free with every doz. bottles ordered.

Increased Trade Discounts.—Don S. Momand, Ltd., 58 Albany Street, London, N.W.I, are now offering larger trade discounts on Eugène Pearl shampoo and Eugène hair rejuvenator, as well as special display discounts.

Change of Status and Name. — On April 1, nitrogen mustard hydrochloride (tri-(2-chlorethyl)-amine hydrochloride) became subject to the Poisons Regulations (Part I, Schedule I, and Schedule 4). On the same date The Crookes Laboratories, Ltd., Park Royal, London, N.W.10, changed the name of their proprietary brand of the product to Trillekamin.

Experts on Tablet-making.—Thompson & Capper Wholesale, Ltd., Speke Hall Road, Liverpool, 19, point out that their facilities for and knowledge of tablet making are extensive. They have during many years co-operated with "many famous manufacturers" in the production of their products in tablet form, and are able to offer a wealth of experience in tablet-making problems to other buyers of tablets.

Sole Selling Agents.—The Vernon Porter Organisation, Felbrigg, Empress Avenue, Woodford Green, Essex, have been appointed sole selling agents to chemists' wholesalers in the British Isles for Passmill, Ltd., Lime Street, Newcastle on Tyne, 1, makers of toilet rolls, crêpe paper, etc. Zephyr toilet rolls, a new line exclusive to chemists' wholesalers, carries a label designed by the Vernon Porter Organisation.

A Full Range.—Products of Adelaide Grey, Ltd., Old Bond Street, London, W.1, many of which have recently been restyled, include Laleek Coolwax depilatory in cartoned collapsible tube



printed magenta on white; Laleek Waxa-way depilatory wax, presented in handled aluminium container ready for heating; and the beauty box illustrated, containing Adelaide Grey complexion balm, hand lotion and liquid make-up in tinted polythene bottles, face powder, powder rouge, creme rouge, foundation cream, eye make-up and long-lash.

REPORT ON SYNTHETIC DETERGENTS

"Immediate alarm unjustified"

"AVAILABLE evidence about the effects of the growing use of synthetic detergents does not justify any immediate alarm in users or the public health services," concludes the interim report services," concludes the interim report of the Committee on Synthetic Deter-gents published on March 26. The chairman of the committee was Sir Harry Jephcott (chairman of Glaxo Laboratories, Ltd.). The report states that synthetic detergents may, like soaps, lead to dermatitis on the hands of some users. Some physicians think that in a few instances dermatitis so caused is more acute than any known to be due to—for example—soap pow-ders, but experiments on man and animals indicate that irritation of the skin under conditions of normal use is relatively slight. Although the longterm effects of daily exposure may be more serious, the evidence so far shows that despite the widespread use of synthetic detergents throughout the country the incidence of dermatitis is not significantly greater than it was when soaps and alkalis, or preparations based on them, were the only common washing products. Many housewives, continues the report, use hand-creams after housework, and that may help to reduce the risk of skin trouble. It is important, in the committee's view, that whatever type of washing product is used the hands should afterwards be thoroughly rinsed in fresh water

and dried; it would be helpful if the manufacturers stressed the advantages of that in the instructions on the containers. It would also be helpful, suggests the report, if some better means could be found of educating house-wives on the quantities of detergents necessary, for it is probable that the slight risks of dermatitis arise less from using them then from avacasing from using them than from excessive use. The implications of the possibility that minute traces of synthetic detergents remaining on crockery, etc., after washing up might get into food or drink, and that traces might also be ingested in other ways are being examined. There is no evidence so far for ascribing any ill-effects to it. The committee is of the opinion that the problem of foam at sewage works, though it may become more acute with increasing use of synthetic detergents of the present types, and may call for speedy remedy, is not at present suffici-ently serious to justify alarm. Attention is being given to the question whether concentrations of some of the constituents in synthetic detergent pre-parations only partially destroyed or removed during normal sewage treat-ment are likely to harm river life or river-drawn water supplies. The committee state that it may be a year or more before they can report fully. The report is published by H.M. Stationery Office, price fourpence.

EQUIPMENT FOR THE FACTORY

Second national exhibition

THE second national Factory Equipment Exhibition was held in London, March 22-26. A conference on productivity was held on March 23 and 25.

The Precipitron air cleaner shown by its makers, STURTEVANT ENGINEERING Co., LTD., London, is designed to remove dust particles from air by electrostatic methods. All air entering a room is treated and the cleaner can be used for departments where aseptic pharmaceutical operations are performed.

Electro-magnetic vibratory equipment some of which has applications in the pharmaceutical industry was exhibited by Podmores (Engineers), Ltd., Stokeon-Trent. Also shown were a multi-duty mill consisting of an electrically driven horizontal rotating shaft to which interchangeable components such as ball mills, winchester shakers, powder mixers could be fixed one at either end.

mills, winchester shakers, powder mixers could be fixed one at either end. A unit for drying Viskaps or Viskrings on bottles by infra-red rays was shown by METROPOLITAN-VICKERS ELECTRICAL Co., LTD., Manchester.

Barrier creams made by ROZALEX, LTD., Manchester, and available for sale through chemists, were shown together with the Rozalex dispenser designed to provide without waste an uncontaminated supply of the creams in factories and workshops as required. Other barrier creams were shown by ALEXANDER DUCKHAM & CO., LTD., London, and W. & F. WALKER, LTD., Liverpool.

Equipment for dispensing liquid soap for use in factory wash-rooms was shown by Valbania, Ltd., London.

"Dispensers" of paper towels were on show at the stand of British Patent Perforated Paper Co., Ltd., London, and Hygiene Products (Great Britain) Ltd. London.

TAIN), LTD., London.

Among the companies showing protective clothing were Northide, LTD., Stockport (polyvinyl chloride gloves, aprons, suits and visored headgear); SIEBE, GORMAN & Co., LTD., London (heat and acid resisting clothing and respirators for protection against gas and dust); PLYSU PRODUCTS, LTD., Bletchley (polyvinyl clothing with welded seams); and G. WADDINGTON & SON, LTD., Hull (gloves of chrome tanned horsehide for use in the heavy industries).

Rubber double doors fitted with Perspex windows intended for use in factories where swing doors are constantly being opened by having trolleys pushed through them were fitted up on the stand of Superbuilt Products, Ltd., Harefield.

The stand of SHELL CHEMICALS, LTD., London, was devoted to a display calling attention to the versatility of Teepol in factory cleaning operations.

Pedal-operated machines for binding packages were shown by CROXTED MFG. Co., LTD., Sidcup, and GERRARD INDUSTRIES, LTD., Brentford.

ACME SHOWCARD & SIGN CO., LTD., Enfield, showed their Wondersigns (magnetic letters, figures, etc., on iron or steel backgrounds). BOABANDS, LTD., London, showed the Flomaster fountain brush and Stennor stencils for marking packing cases.

FIGURES IN THE PHARMACEUTICAL WORLD

THE secretary of the Pharmaceutical Society's Scottish Department would probably assert, in confidence, that aggressiveness was one of his dominant characteristics. Colleagues meeting for the first time this courteous, cultured, unassuming Scot would probably form a quite different estimate. Yet it is true that, in the world of pharmacy, Dr. David McCall has undoubtedly slain his Goliaths.

Succeeding to the secretaryship of the Scottish Department in 1947 (and according to precedent, to the secretaryship of the Pharmaceutical Standing Committee), he was at the heart of the negotiations over the terms to be accepted by Scottish chemist-contractors under the National Health Service. The offers first made were, it will be recalled, rejected. A postal vote had shown that the chemists were solid behind their negotiators, and a deputation that included Dr. McCall left for London with their full backing to interview the Secretary for Scotland (Mr. Arthur Woodburn) and the then Sir John Anderson. What was at stake was nothing less than whether Scottish chemists would enter the service. They did come in—on promise of a dispensing fee of 1s. 3d. and an oncost of 3313 per cent. When, in 1950, their remuneration was subjected to an 8 per cent. cut, the Scottish contractors were equally firm. Through Dr. McCall they took out an interdict in the High Court in Edinburgh. The outcome was that the matter went to arbitration in April 1950, with results that everybody knows. Two things were responsible for the Scottish chemists' conspicuous success: a thoroughly well prepared case and skilful, tenacious advocacy. In both aspects Dr. McCall played a leading part. His fighting appearances before the Tribunal were seen by few. Friendly onlookers were, however, present from Northern Ireland, and they have spoken with enthusiasm of his courageous, flexible, untiring presentation of the arguments of the constituents he was representing. They showed their appreciation later by inviting him to dine with them in Belfast as guest of the Pharmaceutical Committee.

Curiously enough his antecedents in pharmacy would appear an unlikely preparation for such a rôle. A Dundonian, he began his pharmaceutical career as an apprentice with William Doig & Sons, High Street, Dundee, attending evening classes in botany and chemistry at Dundee technical college, and took prizes in both subjects. His mentor, John Lumsden, principal of the college, advised a career in science. In that the young McCall concurred, and in 1913 he entered University College, Dundee, in the Science faculty. The war, during which he served with "the 42nd" in the Somme campaign, interrupted his studies. Invalided out in 1918, he was not slow to resume his studies, with such intensity of application that he qualified in pharmacy on July 3 and graduated B.Sc. (honours biology) on July 4, 1919. The college principal, well aware of his talents,



16. Dr. DAVID McCALL

asked his ex-student to return to the College as a member of the staff, and to open a pharmacy department there. Starting "from scratch" in September 1919, Dr. McCall remained in charge of the school for twenty-eight years, establishing it as one of the most successful of its kind in the country.

of the school for twenty carry years, establishing it as one of the most successful of its kind in the country.

In 1920 Dr. McCall, with Professor Berry and Major Peck, formed a trio that carried out a searching inquiry into the system of pharmaceutical education in Britain, and produced the "white paper" that touched-off so many of the changes that have subsequently taken place in the course of studies leading to qualification. In 1927 McCall was awarded his Doctorate in Philosophy for a thesis on the diatoms of the Tay district (it was later published by the Linnean Society). From 1938 until his "office of profit under the Society" made it no longer possible,

he was a member of the board of examiners for Scotland. He was also an external examiner in pharmaceutics, London University, 1938-44, and an examiner for Queen's University, Belfast, and the Pharmaceutical Society of Northern Ireland. In 1952 he was elected a Fellow of the Royal Society of Edinburgh.

Alert to the importance of the National Health Service, then being hammered into shape, in 1947 Dr. McCall went to York Place first for a year as assistant secretary under Dr. Tait and then as full secretary, with benefits to Scottish pharmacists that they would be blind indeed if they did not recognise.

It is more than a probability that, on behalf of his professional colleagues, he will be called upon to appear again as spokesman and champion. Nobody has a greater loyalty to them and to the Society.





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Outlook for British Chemicals

EVERYBODY connected with the chemical industry in Great Britain knew that it had increased its output considerably since the end of 1948. What was not known was the precise extent of that expansion and the programme for the years ahead. Enlightenment on both aspects is now available in a report issued by the Association of British Chemical Manufacturers, and summarised in these pages last week (C. & D., March

27, p. 307).

The report is based on information supplied by 223 firms with an employed capital of £406.8 millions $(97\frac{1}{2} \text{ per cent. of the industry's total capital)}$. At the end of 1952, twelve manufacturers specialising in the manufacture of pharmaceutical and veterinary products had expansion schemes in hand at an estimated cost of £4.5 millions (£2.5 millions already spent on the schemes). Eighteen companies had in hand expansion projects, estimated to cost £569,000, for the manufacture of fine chemicals, including synthetics and aromatics. As to their future programme, especially in the export field, many manufacturers expect a falling-off in demand for some of their products, which more and more countries are endeavouring to manufacture for themselves. In their place, the British concerns look to the "inventive genius and technical skill" of workers in their research departments to discover new products and improve technical processes so as to maintain the leading position in world markets this country has been enjoying. The need for expanded research is more apparent than ever before, and those manufacturers who can undertake such work should be given as much encouragement as possible by the Government. The amount now spent on research (£11.2 millions in 1952) is but a small percentage of the total turnover of the industry. To compare it with the amount spent on research by American chemical manufacturers is difficult, but productivity teams visiting the United States have put that at around 5 per cent. for pharmaceuticals and between 2.4 and 4 per cent. for heavy chemicals. In Germany, I.G. Farben are believed to be paying the Bayer Institute DM 50 millions a year for research. Undoubtedly research in that country has facilitated its quick return to a place of importance in the chemical world.

In the section dealing with imports, the A.B.C.M. points out that about one-fifth of the total of imported chemicals in 1952 was for raw materials not available in the United Kingdom. In the remainder were a large number of different products, some of them new specialities not yet made in Britain, but also some products

made in this country but now facing foreign competition facilitated by a larger measure of trade "liberalisation." It would be interesting to know the value of that group, and especially of pharmaceutical chemicals, for it is known that some British manufacturers have ceased production of a few chemicals during the past year because they are able to buy imported material at prices lower than their own production costs.

Guesswork

A curious feature of the estimated costs of the pharmaceutical services in 1954-55 (p. 337) is that in England the cost of ingredients and containers is expected to fall by £236,000 and in Wales by £29,000, while Scotland is allowing for an increase of £147,000 in that cost. Considering that, as recently announced (C. & D., March 6, p. 225) the Department of Health for Scotland is setting up machinery for supplying doctors with information about their prescribing costs with the avowed intention of persuading them to prescribe less expensively, the Scottish estimates appear to indicate a singular lack of confidence in the outcome of that policy. Last year's estimates indicated that England then expected a rise in the cost of ingredients, whereas in fact a slight fall took place. The Scots budgeted for a fall and a fall in fact occurred. This year, it would seem, the English and Scottish authorities have decided to back each other's horses.

As a whole the Health Service will, it is expected, in England and Wales cost an extra £11,683,365 and in Scotland an extra £1,773,242. Most of the increase is going to the hospitals. The cost of the pharmaceutical services, reckoned as a percentage of the total, remains fairly stable. In England and Wales it is 10.4 per cent. (against 11.5 per cent. a year ago), and in Scotland 10.2 per cent. (same). In each country it is expected that total dispensing fees and rota payments will rise—that is, that the number of prescriptions will increase. For England, the increase is expected to be £626,000; for Wales, £30,000; and for Scotland, £95,000. Even so, in England the payments by patients and the hoped-for reduction in cost of ingredients are expected to reduce the final cost of the pharmaceutical services from last year's estimate by £109,000. Wales the reduction will be £45,000. In Scotland the increase in cost of ingredients and fees is expected to exceed the increase in payments by patients, the result being an increase of £223,000 in the estimate over that of a year ago.

Overseas Trade in February

THE value of United Kingdom exports in February was £201·1 millions and that of imports £242·0 millions. With re-exports at £8·2 millions, the excess of imports (valued c.i.f.) over exports and re-exports (valued f.o.b.) was £32·7 millions.

Medicines and pharmaceutical products to a total of £2,432,393 were exported during the month. Australia was the largest single market, taking £324,735 worth. With few exceptions the values of those medicines for which individual statistics are available showed a fall from the January values, mainly on account of the shorter working month (twenty-four days against twenty-six). Exports of proprietary medicines were valued at £561,423; penicillin at £206,558; ointments and liniments at £76,543; antipaludics at £28,263; sul-

phonamides at £131,621; barbiturates at £34,948; antihistamines at £47,163 and alkaloids, other than quinine, at £74,892. Shipments of quinine touched the lowest level in years, and at £4,906 were only about one-fifth of the corresponding January exports. The few exceptions mentioned previously were aspirin at £75,163 (£67,867 in January); antibiotics other than penicillin, £377,684; insulin, £46,308; vitamins, £205,125; and liver extracts, £18,979.

Among the toilet preparations exported, cosmetics (face powders and creams, lipsticks, etc.) were valued at £155,659, and dentifrices at £99,035. Toilet soaps, at £174,840; perfumed spirits, at £43,276; and detergents, at £265,205, all attained satisfactory levels compared with the previous month.

Although exports were affected by the shorter working month the same position did not obtain with imports of medicines and allied products which were mostly higher than in January.

Vitamins were about £400 up, at £114,274, and alka-Proprietary and other loids £6,000 up, at £39,511. medicinal preparations, valued at almost £300,000 were nearly £24,500 higher and essential oils, at £507,829, were £2,000 higher than in January. On the other hand antibiotics fell to £97,707 from £600,399 in January.

Onward from Galen A CURRENT CAUSERIE

WITH an injunction to fathers to brush up their space travel lore, the Daily Sketch cites an advertisement for a sonic beam gun for interplanetary communication. "Has static heat dispenser, electronic range-finder, sound-light meter switch, sonic resonator, argon intake vents, energy release control, plutonium power chamber, electron intensifier, ray condenser housing, ray filter, thorium filament chamber. Presumably the framers of the advertisment have due note of the Merchandise Marks Act, and that the trade description is not misleading as to the fitness of purpose of the goods offered. At 10s. 9d. (postage and packing 9d.), the gun certainly seems remarkably good value. Even so our advice to chemists (those chemists — alleged to exist who have toy departments) is not to stock. They might be

arc suitable for the purpose intended.

classed as having the skilled knowledge that makes it

incumbent upon them, as sellers, to ensure that the goods

A NUMBER of attempts have been made recently by firms in South America to register the word "London" as a trade mark, and in that way secure the exclusive right to its use in their country. The London Chamber of Commerce has already undertaken the task of opposing seven such applications. Action was successfully taken in one instance about three months ago in Brazil. More recently, the London Chamber has secured the withdrawal of a similar application in Colombia. No decision has yet been reached on the other five cases—all in Brazil, and concerning, among other things. vinegar. Opposition to the applications involves a great deal of trouble, not only in securing the early information necessary for effective intervention, but also in taking action through suitable representatives in the country concerned. Everyone in Britain will realise, however, how essential it is that the applications should be opposed, because the interests of London merchants and manufacturers would be seriously affected if they were successful. A great deal of goodwill attaches to "London," and it would be lost to the rightful owners if registration were misappropriated, since it would be no longer admissible as a description in the country concerned except by those who had registered it.

WHETHER the distance from a patient's home to a rural pharmacy should be measured by road, by footpath, or as the crow flies was discussed by Denbighshire and Flintshire Executive Council recently. The question may appear frivolous, but can be serious for pharmacists in areas where the mile limit applies. The matter came up when a Caergwrle, Wrexham, chemist, wrote to the clerk pointing out that a review of his dispensing for nine months to November 1953 had shown that only a small percentage bore addresses in Hope, though most of that village was less than a mile from his pharmacy. The Clerk told the Council he had surveyed the area within one mile radius of the pharmacy, and had notified the five doctors serving the district of the names of people living within that mile. Those names, he informed the doctors, would be transferred from their dispensing to their prescribing lists. Two of the doctors had written stating that they had obtained a surveyor's report on the distance from Hope to Caergwrle along the road most commonly taken by the residents of two local housing estates. According to that report, the entrances to the estates were outside the measured mile. The chemist had also employed a surveyor to measure the distances. By one route, Sarn Lane, the distance from his pharmacy to the village was less than a mile. The lane was regarded by some as little more than a footpath. The Welsh Board of Health, when approached, expressed the view that, as most persons would presumably use the footpath for shopping, the distance along the footpath should be taken for the purpose of interpreting the regulations. The regulations, of course, make it quite clear that, if the patient lives within one mile of a pharmacy, the doctor is not entitled to undertake his dispensing. He must prescribe and the pharmacist must dispense.

THE desirability of choosing cosmetics to harmonise with the colour-scheme of their clothing 1ather than with their natural skin-tones is becoming an increasingly accepted maxim among fashion-conscious women, especially since the prevalence of tinted foundations has made it possible to modify the natural skin-tones to harmonise with any chosen colour. Subscribers to the "Beauty Diary" of a London perfume manufacturer regularly receive a booklet which discusses new fashions and suggests suitable ton-The pharmacist has always been among the most versatile of professional men. Will that versatility soon extend to advice on fashion, and the dispensary bookshelf contain, among pharmacopæias and formularies, the latest copy of Vogue?

Not every pharmacist's contacts with the police have ended romantically, but Mr. Cedric A. Harrop, a pharmacist at Eastham, Ches, is not only marrying policewoman Miss Faith Watkins, whom he met during investigations of thef's at the shop next door, but is jointly concerned with her in bringing criminals to justice. The second time the shop on the other side of his premises was the scene of attempted crime. Intruders at the premises attacked a policeman who surprised them, but he saw the car in which they escaped and noted its number. Miss Watkins and Mr. Harrop were later driving home on New Chester Road, when Mr. Harrop saw the wanted car, gave chase and stopped it. The occupants of the car were arrested and subsequently sentenced at Cheshire Quarter Sessions.

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

AT a meeting of the Council of the Pharmaceutical Society of Northern Ireland, held in Belfast on March 19, the president (Mr. W. H. Boyd) in the chair, there were present Messrs. W. P. Ewart (vice-president), J. Irwin (treasurer), S. E. Campbell, H. H. Cowzer, H. W. Gamble, H. F. Moore, J. McGregor, C. A. Quinn, P. R. W. Shinner, and Walter C. Tate. The secretary (Mr. W. Gorman) was in attendance. Apologies for absence were received from Messrs. H. J. Cousley, H. P. Crossin, F. R. Moore, and Professor E. B. C. Mayrs.

THE PRESIDENT reported on a meeting which he and the secretary had had with officers of the Society of Pharmaceutical Students and it was agreed to make a grant towards the cost of an educational visit to London which the students are making at Easter. He also reported on a meeting at which he and the secretary had discussed with representatives of the Associates' Section of the Ulster Chemists' Association an offer of the Section to pesent a prize for each of the Society's examinations. Full particulars had been given about the prizes already offered and when the members had had an opportunity of considering the matter the Section would decide for which subject the prize would be given.

Permission was given to the Ulster Chemists' Association and to its Associates' Section to hold meetings in the

Society's House on April 6, 12 and 29.

On the motion of Mr. Moore, seconded by Mr. Quinn, the following examiners were appointed for the year ending December 31:—Botany, Mr. A. F. G. Fenton, Ph.D., M.Sc.; Zoology, Mrs. G. M. D. Gotto, B.Sc.; Chemistry, Mr. H. H. Campbell, B.Sc., A.H.-W.C., F.R.I.C., Ph.C.; Physics, Mr. C. S. Watt, M.Sc., Ph.D.; Pharmacognosy, Pharmaceutics and Forensic Pharmacy, Mr. H. Stout, Ph.C., F.C.S.; Physiology, Mr. R. F. Whelan, M.D. It was decided that the summer examinations should be held from June 21 to 25, and the theoretical examinations during the previous week if necessary.

The secretary was instructed to convey the sincere sympathy of the Council to Mr. T. F. Storey (a past-president) on the death of his brother, Mr. A. H. Storey (see p. 339).

CORRESPONDENCE

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

THE TITLE "CHYMIST"

Str,—With reference to Mr. Leslie G. Matthews' letter in the C. & D. (March 20, p. 296) on the date at which the description "Chymist" was first used by those carrying on a retail business, I have a copy of The Observator, published June 2, 1686 (in the reign of James II), which contains an advertisement of Gco. Wilson, Chymist. This must be the Geo. Wilson mentioned by Xrayser (C. & D., March 13, p. 253), when he referred to an advertisement of 1709. The 1686 advertisement reads:—"The Elixir Salutis, a most Effectual, Pleasant, Purging Drink; is Rightly and Duly Prepared, with the Volatile Salt of Tartar, by Geo. Wilson, Chymist, at the sign of Hermes Trismegistus in Watlin-Street, near Bow Lane, London, where Men may be furnished with what Quantities they please, and Papers Directing its use; as also with other Chymical Medicines."

RETAIL COMPARISONS

SIR,—Having had experience in private, multiple and co-operative pharmacy, I am interested to compare their various conditions of service. In the main, private pharmacists offer by far the best salaries. Responsibilities are usually greater, duties more varied, and contacts with medical men and the general public much closer and more personal. In the multiples, most pharmacists are just "small cogs in big wheels," working usually under pleasant

conditions, with comparatively little responsibility and little personal contact with directors or customers (the bigger the multiple, the bigger the branches and the more impersonal the contacts). In co-operative pharmacy I found salaries relatively poor, personal contacts with members much too personal (especially with those "big shots" who have positions on committees and delight to air their views and tell pharmacists how they ought to do their work). Most private chemists (and some multiples) both supply overalls to their staffs and pay laundry bills.

SPICK AND SPAN



The lease on my present premises expires within twelve months, and in consequence I shall be seeking a shop elsewhere. I already have two positions in view, both of them within new blocks of buildings. Most of my existing interior fittings I could reuse, but a new shopfront would be essential in either position, as both are open sites. Have you any general advice to give as to the method of procedure? What major points do you consider desirable in a shopfront?

You are wise to start considering this matter well in advance of the change, as the successful shopfront is invariably the outcome of careful thought and planning. Tastes vary widely as to the major points of a well-designed shopfront, but certain features are usually to be found in most well-designed fronts. Briefly they are: -(a) Simplicity (clean dignified lines rather than ornamentation), The facia should have the essential lettering upon it, but should otherwise be clean and uncluttered; (b) the best materials and workmanship the shopkeeper can afford; (c) an entrance that gives adequate and easy access to the shop; (d) a sunblind (if one is necessary and the heights of the site allow it) positioned below the facia so that the name can still be read when the blind is extended; (e) good lighting (essential and productive of much drawing power). The best method of formulating ideas for one's own shop is to visit others. Other pharmacies are naturally those a chemist will study most carefully, but visits should not be confined within a specific trade. By comparing other traders shopfronts one notes many colour combinations, the dif-ferent materials that may be employed in shopfront construction, and the differing approaches of shopfitters. Such observations may well lead to a right choice of shopfitter.

There are many things to consider. Are the shopfront sashes to be of wood or metal? Is the lighting to be fluorescent or tungsten-filament? Perhaps the shopfront is to be on the shady side of the street, and a sunblind is in consequence not required. It is often we'll to prepare a series of such notes, based upon the observations of other premises and the actual physical conditions governing the site chosen. Such a summary, placed in the hands of the approved shopfitter, does much to assist him in preparing a pleasing scheme embodying the features that are considered essential to the new front. One thing should be stressed. It is wise to pay more for the original installation than it is to buy cheaply and then be saddled with large sums for renovation throughout the following years. Buy the best and most durable materials you can afford and employ a shopfitter whose workmanship is of a high standard. A trader's first contact with his customer is through his shopfront, which, if it is well designed and soundly constructed, retains its attraction and selling power through the years. Down-at-heel shopfronts do not stimulate sales. As you are proposing to reuse your existing fittings it would be as well to let the same shopfitter move them over and install them for you.

Send your shopfitting problem to James Grimm, c/o the Editor.

SHARE MOVEMENTS

January to March

BY A FINANCIAL CORRESPONDENT

CTIVE interest in the ordinary shares of manufacturing chemists continued on the London Stock Exchange during the first quarter of the year. Most price movements were again in favour of holders and in a number of instances they established further record levels.

Wright, Layman & Umney £1 ordinary rose by 6s. to 26s. 3d., though trading was limited by the fact that the company has only 60,000 ordinary shares issued. The company's £1 7 per cent. preference shares however were unchanged at the close of the quarter. Allen & Hanburys £1 ordinary were 10s. higher at 65s., while Borax Consolidated £1 deferred at 46s. 9d. represented a gain of 9s. Glaxo Laboratories 10s. ordinary were a focus of regular business and ended 2s, 6d. higher at 46s, 6d, after having risen as high as 48s. 9d. at one point.

In Good Demand

A regular turnover took place in Monsanto Chemicals 5s. ordinary; after reaching 26s. they finished at 23s. 9d.— 3s. higher than at the end of the previous quarter. Ilford 5s. ordinary were in steady demand, finishing 4s. higher, at 18s. 3d. Beecham Group 2s. 6d. deferred, at 15s., were 1s. 4½d. up. Timothy Whites & Taylors 5s. ordinary, though dealt in on most days, closed sevenpence-halfpenny lower at 23s., whilst Boots Pure Drug 5s. ordinary, also a readily

NAME OF COMPANY	1954	LATEST	
£1 units unless otherwise stated	High Low		
Albright & Wilson, 5s Allen & Hanburys, ord Do. 7% prefd. ord Amber Chemical Industries, 2s *Aspro, 5s Barclay & Sons Beecham Group, 2s, 6d. defd Beecham McLean Holdings 4% red.	s. d. s. d. 20 9 18 0 65 0 54 6 25 0 23 6 1 6 1 1 32 0 14 0 30 0 30 0 16 9 13 4½	s d. 20 9 65 0 25 0 1 3 14 3 30 0 15 0	
Beecham McLean Holdings 4/5 fear cum. pref Boots Pure Drug, 5s Boots (Eastern) 6% cum. prefd. A Do. (Western) 7% A prefd. ord Boiax Consolidated defd. British Drug Houses, 5s Dubarry Perfumery. 1s Evans Medical Supplies. 5s Evans Medical Supplies. 5s Glaxo Laboratories, 10s Do. 10s. 8% cum. prefd. ord. Greeff Chemical Holdings, 5s. Howards & Sons Ilford, 5s Monsanto Chemicals, 5s Reckitt & Sons	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	24 4½ 24 1½ 27 7½ 46 92 10 6 1 4½ 1 0 0 6 4 4 2 4 46 6 6 15 4 16 1- 15 7 18 3 23 93 35 3	
Reckitt & Solis Savory & Moore 5½% red. cum. pref Smith & Nephew & Associated Companies, 4s Solidol Chemical, 2s Southalls (Birmingham), 5s Taylors (Cash Chemists), London, 6% cum. pref Taylors (Cash Chemists) Trust 6% cum. pref Vitamins, 1s Whites (Timothy), & Taylors, 5s Do. 7½% cum. pref Wright, Layman & Umney ord. Yardley & Co 4s Do. 4½% second pref Do. 4½% second pref	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	22 9 6 6 1 2 2 5 0 2 1 4 2 6 2 3 0 2 6 3 3 0 3 6 3 3 0 3 6 6 3 3 0 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	

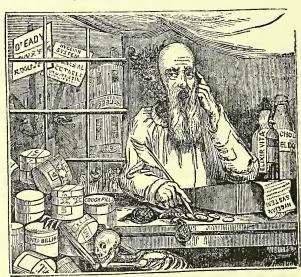
*Ex Bonus.

marketable issue, closed one shilling better at 24s. 4½d. The 5s. ordinary shares of Albright & Wilson and of The British Drug Houses both advanced 2s. on the quarter, their closing prices being 20s. 9d. and 10s. 6d. respectively.

Amongst the lower-priced shares, final prices were mostly unchanged, but Dufay 2s. ordinary were about twopence higher at one shilling. Preference shares followed the trend of ordinary shares, with most moves in favour of holders. Boots (Western) 7 per cent. preferred ordinary were valued over one shilling higher at 27s. 7½d. Exceptions were provided by Taylors Cash Chemists (London) 6 per cent. and Taylors Cash Chemists (Trust) 6 per cent. which both closed about ninepence lower at 21s. 4½d. and 22s. 4½d. respectively.

OLD NICK IN DISGUISE; OR, THE QUACK IN HIS TRUE COLOURS

From the "Gallery of Comicalities" (see C. & D., 1953. II. 188).



This peep behind the mask may operate as a wholesome hint to some our unwholesome brethren. It is a pill not easy of digestion among the compounders of "cures for all things"; but it is to be hoped it will prove "the pillula salutaria" to those who seek consolation in their pernicious nostrums, and who bleed more freely from their purses than the patients of Dr. Sangrado from their veins.

Oh, how I venerate a quack,
With "wond'rous cures," well skill'd to gammon, And never at a loss to sack, From flats and dupes and gulls, "the mammon."

Come quackery! mortal pangs that kills, With study vast and knowledge mighty,

Come with thy antibilious pills, Thy balsam and elixir vitae. Come with refreshing "Gilead's Balm," Health in the invalid to stir up,

Or shattered frame and nerves to calm,

With "Velono's Vegetable Syrup." Come, Morison! surprising man!

Who floor'st disease as flat as flounder, Of quackery thou shall lead the van-Great Life-Preserving Pill Compounder!!!

A Chartered Accountant gives answers to ANY BUSINESS QUESTIONS?

What is the minimum number of members there must be in a company before Section 55 of the 1940 Finance Act can be invoked in a question of estate duty in relation to companies?

It may be said that a company should have at least ten members who are relatives (eleven, if one of them may have a casting vote), otherwise five members may between them command the greater part of the voting power. The question whether a company is controlled by not more than five persons is decided by a number of alternative tests laid down. Although the usual method of exercising control of a company is by having more than 50 per cent, of the voting power, there may be provisions in the articles that give other powers of control. The company, too, may be controlled by five or fewer members by reason of their greater capital interests or rights to the income of the company.

I frequently come across references to net annual value of property but exactly what this covers I really an not sure. Will you explain it for me?

Schedule A tax (often referred to as property tax) is levied upon the net annual value of lands and buildings in the United Kingdom. Each property is or has been valued at some time on the "full rack rent" which the property is worth if let on the basis that the tenant pays the rates and the landlord repairs, etc. If the property is let on any other basis, adjustments must be made to arrive at what the property would produce if let on the usual basis. That valuation is known as the "gross annual value," and from it a graduated statutory repairs allowance is deducted, the sum remaining being called the "net annual value." Thus a property with a gross annual value of £85 obtains a statutory allowance of one-fifth or £17, leaving a net annual value of £68.

The answer you have given (C. & D., February 13, p. 171) to my inquiry concerning payment of rent to myself as landlord of a company of which my wife and I are directors appears to miss the fact that no rent has been paid by anyone, so that L cannot have paid it without reimbursement.

A COMPANY that pays rent will be assessed as occupier (unless you as landlord elect to be liable) and will itself suffer the tax on its so-called beneficial occupation. The company would, of course, have the right to charge the net annual value against profits. It does not follow, to quote your original inquiry, that it is "as broad as it is long" whether the company pay rent or no to a director-proprietor, since the alternative liabilities arising must be carefully compared. An assessment under schedule A and on excess rents would not necessarily equal assessments (if rent is not paid under a variation of the lease) of the company, or/and yourself in respect of any directors' fees.

Directors' fees voted in the accounts for our last financial year have not yet been paid. We understand that we shall not be taxable until they are drawn, but what is the position if fees accumulate undrawn over several years. If liquidation occurred, would the fees escape tax?

If fees are actually credited to the personal accounts of directors, the authorities may regard those credits as in effect "payments," which are subject to deduction of tax at the date the credit is made. The date of payment or credit is in effect the relevant date. Earnings are apportioned to tax years they cover, and a statement of the position is sent out each year showing the tax underpaid after any deductions of tax suffered are duly allowed for. Underpayments are carried forward from year to year. The Inland Revenue in any case is usually willing to make reasonable arrangements where clearly a strict interpretation would be markedly inconvenient. An adjustment of coding to cover deficits may be introduced. If liquidation occurred,

I am of opinion that the Inland Revenue could claim from a director the whole of the underpayments computed, although the fees had not been drawn.

In question 5 of your issue of January 16, you gave the information that liability to income tax on rents received from business premises has reference to modifications and variations of the original agreement drawn up. But will not schedule A tax in any case be levied on the business, whose owners will have to meet that obligation themselves, regardless of rent paid?

SCHEDULE A is assessable on the occupier—in this case the tenants of the lease. They would have the right to deduct the tax from the rent payable. But if the Schedule A assessment is greater than the annual rent, the tenants must bear the excess, which is called their "beneficial occupation." If the rent is the greater, the landlord is assessed on the balance (excess rents), appropriate repairs allowances being given. Since the landlord undertook the property maintenance in the question referred to, it was assumed that schedule A would not be lower than the rent payable.

BRITISH FINE CHEMICALS AND THEIR USES

5. SODIUM PEROXIDE

S ODIUM peroxide represents one of the more unusual types of fine chemicals in that it can only be obtained directly from metallic sodium. The basis of nearly all the other sodium compounds is either soda ash or the carbonate, hydrate, chloride, or sulphate of sodium, all of which are relatively inexpensive. Thus there is little expectation of the market price of sodium peroxide being reduced so long as metallic sodium remains costly. While the monoxide is obtained by directly heating metallic sodium in air, under the formula Na2O, the use of a restricted amount of air, or air which has been denuded of part of its oxygen, provides the peroxide or Na2O. To carry this out on the large scale, small trucks made of aluminium are heated to some 300° C. in an atmosphere which has already had part of its oxygen supply curtailed by forming the monoxide, when the slabs of sodium succeeding this form the peroxide. Although patents have been taken out on the subject, they all more or less depend on the same principle.

A hydrated form of sodium peroxide used for experimental purposes is obtained by treating the product with crushed ice, and washing with alcohol and drying.

Sodium peroxide is used as a source of hydrogen peroxide on treatment with water or dilute acids. As a consequence, it is engaged as a bleaching agent for silk, wool, yarn, and various fibres in the textile industry, in the laundry trade, and indirectly various soap powder compositions. The same high oxidising characteristics are taken advantage of in straw-hat manufacture, and in the refining of oils and fats, while it is further utilised in the dyeing and calico printing industries. Sodium peroxide is an important constituent in fluxes, although the proportion added is a small one. When heated to redness it is considered to be preferable to all other oxidising agents, and the substitution of barium peroxide is only resorted to for reasons of economy. It can directly convert sulphides to sulphates, and this property is taken advantage of in the recovery of several of the rarer metals. It is likewise used in the separation of the platinum metals, whereby refractory metals such as iridium and rhodium There are several are converted to soluble condition. varieties of the peroxide and although the pure material is essential for laboratory practice, one of the commercial qualities available contains little more than 85 per cent of Na₂O₂

Sodium peroxide is usually stored in air-tight containers. While usually free from outside impurities it occasionally contains small quantities of the monoxide or a little

metallic sodium.

ESSENTIALS OF TREATMENT

A C. & D. "post graduate" course for pharmacists

DEALING SPECIALLY WITH THE PHYSIOLOGICAL AND PHARMACOLOGICAL PRINCIPLES INVOLVED

BY A MEDICAL MAN

21. INFECTIOUS DISEASES.—continued

Malaria

ALARIA does not usually occur as a fresh infection in residents of Great Britain but, owing to the large number of people who have seen service, either military or civil, in tropical and subtropical areas, it does occur as relapses of established cases. Malaria is essentially a tropical disease, but its incidence in this country is sufficiently large to warrant many, if not most, pharmacies holding stocks of antimalarial drugs. It is a protozoal infection, in contrast to the bacterial infections that have been discussed in previous articles in this series. A further contrast is provided by the necessity of an intermediate host, and that need allows different methods of prophylaxis to be adopted. Furthermore, the danger to the patient does not arise from toxins produced by the protozoa but from the organisms themselves. Prophylactic and curative treatments, therefore, are based upon different principles from those that have been discussed hitherto. That is why, quite apart from its historical and social background, malaria is a subject worthy of discussion amongst pharmacists.

Malaria is a disease of great antiquity. It was known to Hippocrates in the fifth century B.C., but the parasite in human blood was discovered by Laveran in 1880, while Manson formulated the hypothesis of mosquito transmission. Discovery of the full life cycle of the malarial parasite is indelibly associated with the work of Sir Ronald Ross, who described it in 1898. There are two definite life cycles, an asexual that occurs in human blood, and a sexual that takes place in the mosquito.

Parasitology

The malarial parasites belong to the class of protozoa known as *Sporozoa*, genus Plasmodium. There are several distinct species that affect man and give rise to different types of malaria, e.g., *Plasmodium vivax*, giving rise to benign tertian, *Plasmodium falciparum* to malignant tertian and *Plasmodium malaria* to quartan malarias. The disease is transmitted by certain species of anopheline mosquito, perhaps the best known being *Anopheles maculipennis*, which is nocturnal in its habits. In order that the malarial parasite can multiply within the anopheline host, the atmospheric temperature must remain at 60° F. or higher for several days.

When an infected mosquito bites a man, it discharges sporozoites of malaria from its saliva into the blood of the human host. These sporozoites disappear from the bloodstream within the first hour or so after inoculation of the host by an infected mosquito. Shortt and Garnham in 1948 showed that they congregated in the parenchyma cells of the liver. That explains why relapses follow medication with certain antimalarial drugs. About the seventh to ninth day after inoculation, the parasites are once again demonstrable in the blood stream. Shortly afterwards they can be seen (by the aid of a microscope) inside the red blood cells. The trophozoites, as they are called, increase in size and change their form until division occurs. Each gives rise to several merozoites, usually eight to sixteen in number, which escape into the blood plasma, invade fresh redblood cells, and begin the asexual cycle once again. The asexual cycle is known as the endogenous cycle (schizogony). In addition to giving rise to merozoites, which are asexual, it produces a sexual variety of the parasite (the gametocytes).

The sexual or exogenous cycle is also known as sporogeny and takes place in the mosquito. Gametocytes are contained in the blood of infected humans, and are drawn into the stomach of the mosquito when it sucks blood from infected people. They are usually in the red blood cells, and when the corpuscles rupture within the stomach of the mosquito the gametocytes are freed. The male gametocyte (microgamete) is a flagellate organism that penetrates the female macrogamete. The resulting fertilised body is known as a zygote, which develops into an elongated travelling form known as an ookinete, which penetrates the stomach wall. Subsequently it becomes circular and develops into an oocyst, which finally becomes packed with sickle-shaped sporozoites. Ultimately the oocyst ruptures, allowing the sporozoites to escape into the body cavity and salivary glands until their host discharges them into a human being, when the cycle already described commences again.

Prophylactic Treatment

Study of the life cycles as described gives the clue to effective prophylactic treatment. Treatment may be directed against the parasite itself within the human being but that course is not likely to be completely effective unless the parasite is attacked also in the alternate host: the mosquito. In practice it is, of course, easier to attack the mosquito, and accordingly prophylaxis is directed at extermination of the parasite and of one of the hosts. Recent years have seen remarkable advances in both directions.

The attack against the mosquito is largely a matter of public hygiene. The life of a mosquito is limited and, if its multiplication can be prevented, the mosquito population must ultimately dwindle or disappear. The breeding ground of mosquitoes is always adjacent to swamp or stagnant water. The first line of attack must therefore be against those. Ideally, swamps are drained. If drainage is not possible, they are sprayed from the air with a 5 per cent, solution of dicophane (DDT) in kerosene. Dicophane is stable and very lethal to mosquitoes. In solution in a light oil, it floats on the surface of the swamp and destroys all the mosquitoes with which it comes in contact. Dicophane is not, however, specific to mosquitoes and its indiscriminate use also destroys other forms of insect life. The suggestion has been made that widespread spraying with dicophane can harm the fertilisation of agricultural products and produce disastrous results. So far, that has not happened, and it remains a theoretical possibility. Dicophane can also be applied to the walls and furniture of buildings, thus providing contact with mosquitoes away from their breeding ground, Additional protection is afforded by impregnating articles of personal clothing with dicophane. Another useful substance is dimethyl phthalate, which can be applied direct to the skin as an oil-in-water cream. It is an excellent insect repellent, and has great possibilities in dealing with malaria. A further protection against mosquitoes is provided by the traditional mosquito net. That has its disad-

vantages, in that it is not practicable to surround a person permanently with a net, and furthermore that, by the time that the net is usually lowered (i.e., in the evening), the mosquitoes are already "out and about," with some probably across the barrier before it has been erected.

The attack against the parasite in the individual is a matter for chemotherapy. Its success depends upon regular administration of antimalarial drugs in doses below the amounts required for curative treatment, so that, if any sporozoites enter the blood-stream, they are immediately in contact with an inhibitor. For convenience, the inhibitor drugs are discussed under curative treatment.

Curative Treatment

To effect a cure in an infected patient it is obviously essential to attack the parasite. Apart from preventing fresh infection by mosquito bites, anti-mosquito measures have no place because the parasite can continue to multiply for some years within the host by asexual methods. QUININE HYDROCHLORIDE has been popular for many years and still plays a great part in the treatment of malaria. It is rapidly absorbed and rapidly metabolised, so that it is almost completely excreted within twenty-four hours of the last dose. Quinine is effective chiefly against the asexual trophozoites contained in the red cells. It has a limited effect on the gametocytes and no action on the exo-erythrocytotic forms in the liver because quinine is not concentrated in any of the tissues. In many cases, therefore, relapses are to be expected from quinine therapy, and it is necessary to have several courses of quinine before there can be any certainty that a relapse is unlikely. The recommended dosage is gr. 10 (0.6 gm.) three times daily for seven days. If the attack is so severe that parenteral administration is indicated, intravenous injection is preferable to intramuscular. The dose of gr. 10 should be contained in at least 10 mils of saline, and the injection should be at a rate not in excess of 1 mil of the solution per minute. The reason for such caution lies in the inhibitory action quinine has on the cardiac, muscle. The dose may be repeated one or twice at four to eight-hour intervals, but the daily dose should not exceed gr. 30 in twenty-four hours. Tinnitus, vertigo, nausea and partial deafness are transitory complications of quinine therapy, but they are not serious. In malignant malaria, quinine can induce a rapid hæmolysis and blackwater fever.

MEPACRINE is an acridine derivative that had wide usage during the 1939-45 war amongst the troops, and continues to be used on an increasing scale. The customary prophylactic dosage was one 0.1-gm, tablet daily for three weeks before entering a malarial zone. That dosage was continued for the whole time that the man remained in the zone and for twenty-eight days after leaving it. Mepacrine has a similar action to that of quinine, but the advantage of being concentrated in the liver spleen and reticulo-endothelial system. In contrast to quinine its plasma level is reduced by only 50 per cent, by the end of a week after withdrawal of the drug. A curative dose is 0.1 gm. three times a day for seven days. If necessary, parenteral administration (by the intramuscular route) may be resorted to, the total amount given being not more than 1 gm. daily in doses not exceeding 0.4 gm. at intervals of not less than four hours. Intramuscularly, mepacrine is given as methanesulphonate. The

intravenous route is not employed.

Complementary to mepacrine, which acts mainly upon the trophozoites, is PAMAQUIN, which is effective against the gametocytes. The toxic dose of pamaquin approaches closely to its therapeutic dose and the drug should never be given concurrently with mepacrine, but at least two days' interval allowed. Pamaquin is quickly metabolised and excreted, and is normally given in doses of 0.01 gm, three times a day for three to five days under strict medical supervision. A further two days are allowed to elapse and then mepacrine is given in doses of 0.1 gm. daily for twenty-eight days. Pamaquin may be given combined with 10 gr. of quinine twice daily or 0.1 gm. of proguanil three times daily. Because proguanil, given after mepacrine, has as good an effect as pamaquin, it may lead to a lessened use of the latter, which is so toxic. Proguanil is a biguanide having a wide range of action on the malarial parasite. It has a slower action than other antimalarial drugs and in use should be combined with the others. A suggested scheme for the first two days is 0.2 gm. proguanil coupled with 0.3 gm. of mepacrine three times a day, followed by 0.2 gm. of proguanil alone three times a day for nine days, and thereafter 0.1 gm. proguanil daily for six months. The prophylactic dose is 0.1 gm. daily but, owing to its very rapid absorption, administration need not begin so soon as that of mepacrine. Proguanil is effective against the preerythocytes in the liver. Unfortunately certain strains resist proguanil, otherwise it is the drug of choice, having few if any side-effects, and not discolouring the skin as mepacrine does.

Pyrimethamine is a new antimalarial drug that has had limited field trials, although it appears to show great promise. The dose is 50 to 100 mgm. on two consecutive days. The compound appears to have great advantages as a prophylactic, 25 mgm. weekly being apparently adequate.

The advances in treatment of malaria have had, and will continue to have, widespread sociological effects. They may present an example of medicine's providing relief only to create ills in another direction. The number of deaths occurring annually from malaria is unknown, owing to lack of efficient records. There is no doubt that they used to be very substantial indeed. and certainly ran well into six figures if not millions. With good distribution of cheap drugs, such as is now possible (and indeed now occurs in many parts of the world), there comes a big fall in the death rate. The advances in the treatment of malaria are thus part of the challenge medical and pharmaceutical researches lay down to the world.

NEW BOOKS

Tests and Standards for New and Nonofficial Remedies, 1953

J. B. Lippincott Co., Aldine House, Bedford Street, London, W.1. 7\frac{1}{4} \times 4\frac{3}{4} \text{ in. Pp. 327. 32s.}

ISSUED by the chemical laboratory of the Americal Medical Association, the work contains monographs previously published as section B of New and Nonofficial Remedies and giving, as the title suggests, the specifications for the control of the purity, etc., of the medicaments dealt with. The decision to split the N. & N. R. of 1952 and earlier into two was made as the interests of the first section were medical and those of the second pharmaceutical. A survey had indicated that few users referred to both parts.

Medical Terms

FFRANGCON ROBERTS, M.A., M.D. William Heinemann Medical Books, Ltd., 99 Great Russell Street, London, W.C.1. $7\frac{1}{4} \times 4\frac{3}{4}$ in. Pp. 88. 6s.

PRESENTED in the form of a thesaurus the book provides a guide to the meaning of currently used medical expressions. Five chapters devoted to a general discussion of medical etymology are followed by lists of root words. suffixes and prefixes classified according to meaning. look up the meaning of a word the user of the book refers to an index and thence to the page(s) on which the component parts of the word are given. For example, the meaning of crythroblast is obtained by combining the meaning of its two parts.

Scale of Railway Standard Charges

The Railway & Shipping Publishing Co., Ltd., 12 Cherry Street, Birmingham, 2. 103 x 81 in. Pp. 30. 15s.

THE revised edition of Railway Standard Charges covers the increased rates that came into force on March 1. The publication contains the present-day railway standard charges for all classes of goods (1 to 20) at mileages from six to 750. In addition to the station-to-station rates for classes 1 to 20, the collected and/or delivered rates for classes 11 to 20 are shown. With the use of the book, charges may be obtained at a glance without calculation.

AMERICAN APPROVED REMEDIES

Preparations accepted by the American Medical Association's Council on Pharmacy and Chemistry for inclusion in its list of "New and Non-official Remedies":—

ANDROLIN,—Brand of testosterone supplied by Metropolitan Laboratories, Inc., Oyster Bay, New York, as aqueous suspension containing 25 or 50 mgm. of the drug per c.c. 10-c.c. vials.

TRIHEXYPHENIDYL HYDROCHLORIDE.—3(1 - Piperidyl) - 1 - phenyl - 1 - cyclohexyl - 1 - propanol hydrochloride. Exhibits an artopinelike action and exerts an antispasmodic effect on smooth muscle and an inhibitory action on the parasympathetic nervous system. Smooth muscle spasm is relieved by direct action and by indirect parasympathetic release. Useful for treatment of all forms of Parkinsonism, it reduces the characteristic muscular rigidity. Especially effective in reducing the rigidity produced by muscle spasm, thus increasing the ability of the patient to achieve co-ordination of muscular motions. Side effects are minor (dryness of the mouth, blurred vision, dizziness, mild nausea). Those tend to decrease with continued use of the drug, Administered orally, initial daily dose, 1 mgm., gradually increased to 6-10 mgm. Lederle Laboratories Division, American Cyanamid Co., Pearl River, New York, supply elixir Artane hydrochloride (in 473-c.c., and 3-78-litre bottles), a flavoured preparation containing 0-5 mgm. of the drug per c.c.; and tablets Artane hydrochloride each containing 2 or 5 mgm.

METHYLERGONOVINE TARTRATE. — N-{α-hydroxymethylpropyll-d-lysergamide tartrate containing two molecules of methanol of crystallisation. Induces uterine contractions in the immediate period after placental expulsion and in the puerperium (within 30-60 seconds after intravenous injection, 2-5 minutes after oral administration), Indicated for administration at the end of the third stage of labour or Casarean section to prevent or combat postpartum uterine atony and hæmorrhage, Caution should be exercised in administering the drug to patients with sepsis and serious hepatic or renal involvement. Single dose of 0-2 mgm. is injected intramuscularly or intravenously at the end of labour. 0-2 mgm. three or four times a day may be given orally for subinvolution or during postpartum convalescence. Sandoz Pharmaceuticals, Division of Sandoz Chemical Works, Inc., New York, supply ampoules of solution containing 0-2 mgm. of the drug in 1 c.c.; and tablets each containing

NEW GERMAN PROPRIETARIES

Information from German pharmaceutical periodicals about recently introduced proprictaries:—

DIPASIC GEWO.—Each tablet contains 100 mgm. of a compound of isonicotinic acid hydrazide with p-aminosalicylic acid. Ed. Geislich Söhne A.G. Walhusan, Switzerland. Distributors: Gewo, G.m.b.H., Baden-Baden (Disch Apotheker Ztg., March 18).

CITO-EUNARCON,—Sterile 5 per cent, solution of the sodium salt of \$\beta\$-bromallyl-isopropyl-N-methylbarbituric acid with the addition of diethylether. Each 10 c.c. ampoule contains 0.5 gm, active substance. Narcotic with short action, suitable for small operations. Riedel de Haën A.G. Berlin-Britz (Dtsch Apotheker Ztg., March 18).

ANASTIL-C. — Each 1-c.c. ampoule contains guaiacol, 0.075 gm, and camphor 0.05 gm, intended for intragluteal injection. Vial & Uhlmann, Frankfurt-am-Main (Disch Apotheker Zig., March 18).

ASTHMASOL INTRA.—Complex calcium salt of gluconic and lævulinic acids combined with theophylline, sodium iodide, ephedrine and atropine (calcium content about 100 mgm. per c.c.). Supplied in ampoules by Pantadyn Arzneimittelfabrik, Berlin-Schöneberg (Disch Apotheker Zig., March 18).

GUIDE TO NEW MEDICAMENTS

Information about proprietary products supplied principally on prescription. Reprints on perforated gummed paper for affixing to index cards are obtainable.

FITOBAN

Manufacturer: Evans Medical Supplies, Ltd., Speke, Liverpool, 19.

DESCRIPTION: A fungicidal cream.

FORMULA: Zinc undecylenate, 15 per cent.; menthol, 1 per cent.; phenyl mercuric nitrate, 0·1 per cent.; phenol, 0·1 per cent.

INDICATIONS: Tinea infection. How Supplied: In tube of 25 gm. FIRST ISSUED: January 1954.

PASINAH

Manufacturer: A. Wander, Ltd., 42 Upper Grosvenor Street, London, W.1. Description: Cachets containing 1.5 gm. of sodium PAS and 17 mgm. of isoniazid.

INDICATIONS: For all forms of tuberculosis.

Dosage: Twelve cachets daily in divided doses.

How Supplied: In tins of 100 and 500. Hospital bulk quantities by arrangement

FIRST ISSUED: November 1953.

NEOPHRYN

Manufacturer: Bayer Products, Ltd., Africa House, Kingsway, London, W.C.2. Description: Nasal drops and spray containing Neosynephrine hydrochloride $\frac{1}{4}$ and $\frac{1}{2}$ per cent. respectively.

INDICATIONS: Relief of nasal congestion associated with coryza, rhinitis, sinusitis and hay fever.

Dosage: Five drops or two "squeezes" from spray.

How Supplied: Drops, in 15-mil bottle with separate dropper attached by means of a plastic clip; spray, in 15-mil plastic atomiser.

FIRST ISSUED: Drops, October 1952; spray, November 1953.

TRILIX

Manufacturer: James L. Hatrick & Co. (London), Ltd., 58 Britton Street, London, E.C.1.

DESCRIPTION: A mineral-vitamin tonic elixic.

FORMULA: Each fluid ounce contains: Vitamin B₁, 3 mgm.; potassium glycerophosphate, gr. 4; sodium glycerophosphate, gr. 2; manganese glycerophosphate, gr. ½; strychnine glycerophosphate, gr. 1/20; nucleinic acid, gr. 2.

INDICATIONS: During convalescence for lowered vitality and general debility due to anorexia, neurasthenia, etc., and where the patient's metabolism is low and listlessness is evident.

DOSAGE: 1-2 teaspoonfuls in water 3-4 times a day preferably after meals.

How Supplied: In bottles of 16 and 80 fl. oz.

FIRST ISSUED: July 1953.

ACETEST

Manufacturer: Miles Laboratories, Ltd. (sole distributors: Don S. Momand, Ltd., 58 Albany Street, London, N.W.1).

DESCRIPTION: Reagent tablets, for the detection of ketone bodies in the urine, containing sodium nitroprusside, aminoacetic acid, disodium phosphate and lactose.

TECHNIQUE: 1. Place one tablet on a clean white surface. 2. Put one drop of urine on tablet. 3. After thirty seconds compare colour of tablet with special colour chart. 4. Record results as negative, trace, moderate or strongly positive.

How Supplied: In bottle of 100 tablets with colour chart.

First Issued: November 1953.

References: Duncan, Ann. intern. Med., 1952. 37. 1188. Joslin et al., Treatment of Diabetes Mellitus, Lea & Febiger, Philadelphia, 192 and 197. Erling, The Task of the Laboratory, Vol. 4, Diabetikeren, Norway.

ARTHRIPAX TABLETS

Manufacturer: Clinical Products, Ltd., 2 The Green, Richmond, Surrey.

FORMULA: Mephenesin, gr. 1; salicylamide, gr. 5; dihydroxyaluminium glycinate, gr. 1½.

INDICATIONS: Many types of subacute and chronic rheumatic disorders and acute myalgias.

Dosage: Three tablets, three times a day.

How Supplied: In packs of sixty-four, 100 and 250.

First Issued: November 1953.

ARTHRIPAX CREAM

MANUFACTURER: Clinical Products, Ltd., 2 The Green, Richmond, Surrey.

FORMULA: Benzyl salicylate, 7.5 per cent.; menthol, 1 per cent.; ephedrine hydrochloride, 0.5 per cent.; glycol salicylate, 7.5 per cent.; terebene, 7.5 per cent.; capsicin, 0.08 per cent.

INDICATIONS: Arthritis, fibrositis, lumbago, neuritis and sciatica.

How Supplied: In 1-oz. tube and 4-oz. and 8-oz. jars.

FIRST ISSUED: November 1953.

Manufacturer: The British Drug Houses, Ltd., Graham Street, London, N.1. containing DESCRIPTION: Tablets each

300 mgm. piperazine adipate.

INDICATIONS: Threadworm infestation.

Dosage: Children up to six years of age, one tablet per day per year of age; more than six years and adults, two tablets three times a day.

How Supplied: In bottles of twenty-five and 100.

FIRST ISSUED: November 1953.

ATEMPOL

Manufacturer: Norgine Pharmaceutical Products (London), Ltd., 19 Manchester Square, London, W.1.

DESCRIPTION: A safe non-barbiturate hypnotic and sedative, 3-methyl-pentyneol-3.

Use: As an alternative to the barbiturates in most forms of insomnia and for sedation, particularly to allay nervous anxiety states pre-operatively.

Dosage: Hypnosis. Adults, 2-4 capsules; children (12 months and over), 1-2. Sedation. Adults, 1-2 capsules; children (12 months and over), one.

How Supplied: In bottles of twelve and forty capsules.

FIRST ISSUED: November 1953.

REFERENCES: Science, 1951. 114. 384. Amer. Practit., 1952. 3. 23. J. Amer. pharm. Ass., Science Edition, 1952. 41. 13. J. Pediat., 1952. 41. 153. -----

MANUFACTURER: Bengué & Co., Ltd., Mount Pleasant, Alperton, Wemb'ey, Middlesex.

DESCRIPTION: Ampoules of GT 50 A (for men and women) and of GT 50 B (for women only).

FORMULA: GT 50 A.—Calciferol, mgm. 13.6; Neostigmine bromide, mgm. 0.295; carbachol, mgm. 0-1; aneurine hydrochloride, mgm. 5-95; procaine hydrochloride, mgm. 10.0; ascorbic acid, mgm. 0.1 per 5-c.c. ampoule. GT 50 B.—Calciferol, mgm. 13.6; neostigmine hydrochloride, mgm. 0.295: carbachol, mgm. 0·1; ethinyloestradiol, mgm. 0·01; progesterone, mgm. 5·0; procaine hydrochloride, mgm. 10.0 per 5-c.c. ampoule.

INDICATIONS: Rheumatoid arthritis, arthrosis (spondylarthritis, spondylosis, coxarthritis, etc.), osteoporosis and osteomalacia.

Dosage: GT 50 A, one 5-c.c. intragluteal injection weekly, for eight to twelve weeks. GT 50 B, one 5-c.c. intragluteal injection weekly given alternately with GT 50 A.

How Supplied: In carton of five 5-c.c. ampoules.

FIRST ISSUED: October 1953.

REFERENCES: Ruskin, Amer. J. dig. Dis., 1949. 386. Stuhlfauth and Kusche, Münch. med. Wschr., 1951. 93. 2109. Tschannen, Der Krankenhausarzt, May 5, 1951.

MISCELLANEOUS INQUIRIES

Tannin Stains in Teapot

Can you suggest a method of removing tannin stains from the inside of a silver teapot without damage to the vessel?

WE suggest that you experiment with acidulated water. Nitric acid should, of course, be avoided and, with a silver teapot, care should be taken that the acid does not attack any of the exposed underlying metal.

Paris Green

What are the arsenic or copper contents of the Paris green dusts as normally used in horticultural practice?

Dusts containing Paris green admixed with lime are free from the traces of acetate of copper, which burns leaves. The commercial powder contains the equivalent of 55 to 60 per cent, of arsenic (As₂O₃), 27 to 31 per cent. of copper oxide (CuO), acetate equal to 10 per cent. (calculated as acetic acid).

Syrups of Camphor

Can you help me with a formula for syrup of camphor?

Three formulas for syrup of cam-phor were given by Béral. The one usually preferred had the formula:—

Camphor water 1 Sugar 2 Sugar ... Camphor syrup could also be made as

follows:-... ... 1 Camphor vinegar ... (both by weight, so that each 30 gm. of syrup contains camphor, 0.05 gm.).

Shaving Cream Formulas

Can you supply reliable formulas for (a) lathering; (b) brushless shaving cream preferably incorporating stearic acid in each case?

THE following formulas should meet your requirements:-

(a) Lathering shaving cream.

1. Stearic acid ... 33.6 gm. 2. Coconut oil ... 6.4 gm. 3. Triethanolamine ... 1.0 gm. 4. Glycerin 5. Potassium hydroxide ... 7·11 gm. 6. Sodium hydroxide 7. Water 43.04 gm. Water ... Perfume 0.5 gm.

Perfume ... 0.5 gm.

Melt one-half of l with 2. Place 3,
4, 5, 6 and 7 together in another container and heat to boiling point. Mix the two liquids thoroughly in a warm vessel which should be kept warm. When the mixture has saponified add the rest of the stearic acid, previously melted. Triturate thoroughly until homogenous. Add the perfume. Allow to stand for three days before packing.

(b) Brushless shaving cream.

"	Diusiness situring cicini	•	
1.	Stearic acid	• • •	10.0
	Spermaceti	• • •	2·0 1·0
	Caustic potash	• • •	5.0
	Glycerin	• • •	2.0
	Borax ···	• • •	100
6.	Distilled water to	• • • •	100
	Perfume—a sufficiency		

Heat 1 and 2 together. Heat 3, 4, 5 and 6 together in a separate container, mix the two liquids thoroughly in a warmed vessel, stirring constantly until cool. Add the perfume.

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, MARCH 31: THEOBROMINE ALKALOID was advanced by 2s. per lb. and its salts by one shilling on March 26. The rise is the fourth in three months, and theobromine price levels are now about 25 per cent. above those ruling at the beginning of January. Supplies are well sold ahead, and German material, which a year ago depressed the market, is said to be in a similarly tight position. The price of CAFFEINE was not changed on this occasion, but as the prices of that alkaloid are closely linked with those of theobromine the trade may expect a further increase shortly.

The shortage of LITHIUM SALTS mentioned in this report a fortnight ago is no doubt responsible for the Government's allowing LITHIUM CARBONATE to be exempted from Key Industry Duty

from April 1 (see p. 333).

Business in CRUDE DRUGS was spasmodic during the week, IPECACUANHA and Buchu being particularly difficult to locate. With several consumers replenishing their stocks of Cape ALOES, and with a continued absence of shipment offers, holders were asking 5s. per cwt. more for their stocks than in the previous week. GINGER was again firmer, both African and Jamaican being 20s. per cwt. dearer, there were no offers of Jamaican for shipment. Australian light-amber Honey was slightly easier, but other types were unchanged. Supplies of honey are not plentiful but the position is expected to ease within the next few weeks. CARDAMOMS (Aleppy greens) were down by about 1s. 6d. per lb. and MENTHOL by sixpence. It is understood that shippers' freight rates for QUASSIA are to be calculated on measure in future instead of on weight. Representations against the proposal are being made since its effect will be to add 20s. a cwt. to the cost.

In the Essential Oils market Chinese ANISE was about three-halfpence more per lb. on the spot and Ceylon CITRONELLA, although one-penny per lb. dearer than last week, was still under the price asked at origin. LEMONGRASS for shipment eased by threepence per lb. and Chinese PEPPER-East MINT by fourpence-half-penny. Indian PALMAROSA advanced by 6s. per

lb. for shipment.

EXCHANGE RATES ON LONDON

I	At the o	pening on W	ednesday.
1	*Alexandria . Amsterdam .	Piastres to £	97¼-97¾ 10.56-10.72
1	*Bombay	Shillings to	1/515 1/51
	Brussels	rupee Francs to £	1/515-1/518 138.95-141.05
	Copenhagen	Kronor to £	19.191-19.481
		Florins to £	5.24-5.32
	*Hong Kong *Karachi		$1/2\frac{7}{8}-1/3$
	,	rupee	2/132-2/115 79.90-81.10
	I isbon *Montreal	Escudos to £	
	T.T New York	Dollars to £	$2.75\frac{7}{8}$ - 2.76
	т.т	Dollars to £	2.78-2.82
	Oslo	Francs to £	972.6-987.3
	Stockholm .	Kronor to £ Shillings to £	14.37 %-14.59 %
	Zurich	Francs to £	12.15 16-12.33 18
	*Free mar	ket rates; remai England.	nder Bank of
	1	THE	

UNITED STATES DRUG AND CHEMICAL REPORT

NEW YORK, MARCH 30: MENTHOL prices advanced by 10 cents, making the Brazilian \$5.00 and the synthetic \$5.10 per lb. Lower per lb. were cosmetic Lanolin at 35 cents (down 3\frac{1}{2}) cents) and pharmaceutical lanolin at 32 cents (down $2\frac{1}{2}$ cents).

Higher per lb. among Botanicals were Agar, with Kobé number one, at \$3.35 (up 35 cents); Buchu at 45 cents (seven cents); Verona Orris root, 30 cents (five cents) and Florentine, 40 cents (eight cents); Tolu Balsam at

\$4.00 (up 50 cents).
Higher per lb. among ESSENTIAL
OILS were natural Peppermint at \$5.90 (up 15 cents) with the redistilled at \$6.25 (15 cents); Chenopopium, \$6.35 (10 cents); Bois de Rose, \$4.15 (15 cents), Bots De Rose, 34 10 (15 cents). Lower per lb. were Eugenol at \$2.65 (down five cents); Haitian Vetivert, \$12.00 (75 cents) and Cori-ANDER, \$18.50 (\$2).

Pharmaceutical Chemicals

ACETIC ANHYDRIDE.—Current rates (per ton) include the following: 1-ton (spot or contract over a calendar year) in 90-gall, drums, £130; single carboy, £162; single demijohn, £166.

AMMONIUM CARBONATE. — B.P. lump is £73 5s. per ton; POWDER, £76 5s. BICAR-BONATE is £48 15s. per ton; all delivered free United Kingdom in non-returnable packages.

CINCHOPHEN.—1-cwt. lots are quoted at 21s. per lb. [Corrected note.]

DICOPHANE (DDT).—Prices are as follows:—1-cwt. lots, 3s. 1d. per lb.; 1-ton, 2s. 10d. Discount for larger quantities.

Ergotoxine ethanesulphonate. —Price per gm. for B.P.C. 1949 material is. 1 gm., 125s.; 10 gm., 115s.

Magnesium hydroxide.—Makers' prices for B.P.C., are: 1-cwt. lots, 3s. 5d. per lb. and 1-ton, 3s. 2d. per lb.

MANDELIC ACID. — 1-cwt, lots in 28-lb. containers are 10s. 9d, per lb. The Calcium salt is also 10s. 9d, while Sodium is 11s. 3d, per lb, for 1-cwt, lots.

MENAPHTHONE. — B.P. is £16 pcr kilo; ACETOMENAPHTHONE, B.P. £16; WATER-SOL-UPLE (menadione sodium bisulphite, UPLE (menadione U.S.P.), £19 10s. per kilo.

METHYLPHENOBARBITONE.—B.P. is 63s. per lb. (1-cwt. lots).

METHYL SALICYLATE. — In 5-cwt. lots price is 3s 1½d, per lb.; 1-cwt., 3s. 2d.; 56-lb., 3s. $2\frac{1}{2}$ d.

OLEIC ACID. - Price for B.P. is about 153s. per cwt.

PHENACETIN. — In 5-cwt. lots makers' price is now 6s. 8d. per lb., 1-cwt., 6s. 9d. PHOSPHORIC ACID.—P.P. is 1s. 5½d. per lb. in 1-2 carboy lots. Hypophosphorus,

n winchesters, is from 5s. 9d. to 6s. 10½d. per lb. as to quantity.

PHYSOSTIGMINE.—Rates per kilo: 25-gm. lots are: Alkaloid, 6,634s.; Salicylate, B.P., 5,238s.; Sulphate, B.P.C., 5,936s. POTASH, SULPHURATED. — B.P.C. lump is 28,24 per lb for 1-cyt lots

is 2s. 3d. per lb. for 1-cwt. lots.

POTASSIUM ACETATE.—B.P. is 2s. 8d. per lb. in 1-cwt. lots.

POTASSIUM BICARBONATE,—B.P. powder is 130s, per cwt.

Potassium bromate.—In 5-cwt. lots 7s. per lb. In small quantities the prices range up to 8s. 9d. per lb.

POTASSIUM CHLORIDE.—In 1-cwt. lots B.P., is 1s. 6d. per lb.

POTASSIUM HYDROXIDE. — B.P. sticks are from 6s. 6d. per lb.

RIBOFLAVINE, — Price (per kilo) is £41 15s. for 1-kilo and £41 10s, for 100-

SOD UM PERCARBONATE.—1-cwt, kegs are about 163s. (bags 7s, 6d. lower) for minimum 12½ per cent, available oxygen.

SODIUM PHOSPHATE. - B.P. powder is 125s. per cwt.

SODIUM SALICYLATE.—Rates are: 1-ton lots in bulk, 3s. 5d. per lb.; 5-cwt., 3s, 5½d.; 1-cwt., 3s. 6d.

SPARTEINE SULPHATE. - Price is 5s. 8d. per oz.

- Quotations are from STILBOESTROL. 1s. 2d. to 1s. 7d. per gm. as to quantity. 1-kilo lots of B.P. are quoted at 10½d. per gm. The DIPROPIONATE is about 1s.

STRYCHNINE.—Current rates per oz. are given in the 'o'lowing table:-

SALT	Under 25 oz.	25 oz 99 oz	100 oz 499 oz.	500 oz. and over	
ALKALOID, B.P.C. BISULPHATE	s. d. 7 10 6 8	s. d. 7 8 6 6	s. d. 7 6½ 6 4½	s. d. 7 5 6 3	
HYDROCHLORIDE, B.P. NITRATE B.P.C. PHOSPHATE SULPHATE, B.P.C.	7 5 7 5 8 6 6 11	7 3 7 3 8 4 6 9	7 1½ 7 1½ 8 2½ 6 7½	7 0 7 0 8 1 6 6	

SULPHACETAMIDE. — Quotations (per lb.) for 1-cwt, lots are 24s. 6d. The Sodium derivative is 30s.

SULPHAGUANIDINE. - Price per kilo for 500-kilos is 34s. 3d.

1-cwt. lots is 21s, 9d.

SULPHOCARBOLATES. — SODIUM PHENOL-SULPHONATE, B.P.C. (powder) is 7s. 4d. per lb. in 1-cwt. lots and ZINC, B.P.C., 7s.

SULPHUR. — B.P. PRECIPITATED is £105 per ton, or £110 per ton for 1-cwt, lots.

TANNIC ACID. — Home-trade rate for levis B.P. is from 5s. per lb.

TARTARIC ACID. — Rates for the home trade are now as follows:—10-cwt. lots, 210s. per cwt.: 5-9-cwt., 212s.; 2-4-cwt., 214s.; 1-cwt., 215s.

TEREBENE. — For 1-carboy lots, 4s. 2d. per lb. is asked. In winchesters, prices are from 4s. $3\frac{1}{2}$ d. to 5s. 2d. per lb.

TERPINEOL. - Prices of B.P. grade are from 3s, to 3s, 6d, per lb., as to quantity.

THEOBROMINE. — Firmer. ALKALOID now about 24s. per lb. and the SODIUM SALICYLATE, 16s. for 1-cwt. lots.

THYMOL.—Prices (per lb.) are 16s. 9d. for 28-lb. and 16°. 3d. for 1-cwt. lots.

ZINC CHLORIDE. — B.P.C., cake from 4s, 6d, to 4s, 10d, per lb.; sticks from 5s, 10d, to 6s, 2d, per lb. Technical, 135s. per cwt.

ZINC PEROXIDE. — Price (per lb.) for 1-cwt, lots of B.P. is 5s, 3d,

Crude Drugs

ACONITE. — Spanish napellus is 3s. 2d. per lb., duty paid, ex wharf.

AGAR.—Kobé No. 1 on the spot is from 17s. 6d. to 18s. per lb. Forward, April-May shipment, 15s. 9d., c.i.f., sellers.

ALOES.—Prime Cape is dearer at 180s. per cwt. with f.a.q. at 175s., on the spot; shipment, no offers from origin. Curação is 305s. on the spot and 29Js., c.i.f., for shipment.

- Chinese star is offered for ANISEED. shipment at 190s. per cwt., c.i.f.

Antimony. — English 99.6 per cent., £222 10s.; 99 per cent., £210 per ton.

Areca Nuts.—Quotations are about 45s. per cwt. for Ceylon material on the spot. Shipment, 42s. 6d., c.i.f.

ASAFŒTIDA.—Persian block is from £10 to £12 per cwt., duty paid, as to quality.

BALSAMS.—Quotations (per lb.) are:— Canada: 21s. 6d., spot. Copaiba, soluble Para, 12s. 6d.; insoluble, 8s. 6d., spot. Peru, firm at 9s., in bond. Tolu (genuine as imported), is 25s., spot, and 25s., c.i.f.

BENZOIN.—Sumatra block No. 1 on the spot is from £30 to £34 per cwt.

BISMUTH METAL.—Minimum rate is 16s,

Buchu.—Spot offers are difficult to find with 2s, 3d. per lb, indicated. Shipment offers also difficult.

CALUMBA. — Ordinary natural sorts are quoted at 90s, per cwt, on the spot.

CARDAMOMS.—Easier. Aleppy greens are 9d. per lb. on the spot; shipment offers are 13s., c.i.f.

CHILLIES.—Mombasa are 300s, per cwt. on the spot, and 275s, c.i.f. Zanzibar are 280s., c.i.f. Sierra Leone not offering.

COCHINEAL. — Black brilliant is 10s. 3d. per lb.; and Peruvian silver-grey, 7s. 6d.

Ergot, — Quiet. Portuguese for prompt shipment is 16s, per lb., c.i.f. nominal. Spot material offered at 17s.

GINGER.—Firm. African on the spot is 160s. per cwt. with shipment at 145s., c.i.f. Jamaican No. 3 is 240s.; no shipment

HONEY.—Australian light-amber is offered on the spot at 103s, to 110s, per cwt.; medium-amber, 95s, to 100s. Argentine is from 115s, to 120s, and Jamaican, 120s.

IPECACUANHA.—Spot market is almost bare. Shipment: Colombian, 46s., c.i f. (May); Nicaraguan, 51s.

MENTHOL. — Spot. Chinese is about 29s, 6d. per lb., du y paid, and for shipment, 27s. 6d., c.i.f.

MERCURY — Nominal spot value is from £69 to £70 per flask (76 lb.), ex warehouse.

NUTMEGS. — West Indian 80's quo'ed at 2s. 9d. per lb. on the spot and 2s. $5\frac{1}{2}$ d., c.i.f., for shipment.

Orange PEEL,—Bitter quarters. Spanish quoted at 1s, 10d, and West Indian at 1s, 1d, per lb, on the spot, Bitter ribbon 1s. 2d.

Orris root.—Offers of Florent ne good sorts are scarce with prices nominal. Shipment quotations are about 200s, per cwt.

Papain.—Spot values for East Afri an grade one are 24s. per lb., and grade two, 21s. Ceylon white for shipment is 23s.,

PEPPER.—Weak. White Sarawak is down to 5s, per lb., spot, with afloat parcels at 4s, 10\frac{1}{2}d., c.i.f. Black Sarawak, special is 5s, 1d. per lb. spot; afloat, 4s, 3\frac{1}{2}d. to 4s, 6d., c.i.f. Black Malabar, 625s., per cwt. spot.

- Jamaican is dearer on the PIMENTO. spot at 4s. 6d. per lb.

Podophyllum,—Pelta", m is 336s. per cwt, on the spot. Emodi is 140s.

QUASSIA. - May-June shipment offers are 31s. per cwt., c.i.f.

QUILLAIA.—Supplies of whole bark are cleared on the spot; forward offers difficult to obtain. Cut bark has sold at 220s. per cwt., on the spot.

RAUWOLFIA (SERPENTINA).—Spot material scarce with prices nominal.

RHUBARB.—Chinese, Rough round, high dried is from 7s. 6d. to 8s. 6d. per lb. for sound.

 Mancha superior is about SAFFRON. 152s, and selecta, 149s, per lb.

Sandarac.—Moroccan is 12s. 9d. per lb. on the spot.

- Jamaican native red SARSAPARILLA. — Jamaican native red is 2s. 9d. per lb. on the spot. Forward offered sparingly at about 2s. 6d., c.i.f.

SEEDS.—Prices per cwt.:—ANISE.—Unchanged. Sellers of Cyp.ian at 167°. 6d., Bulgarian at 170s., duty paid. CARAWAY.
—Dutch unchanged at 155s., duty paid, with shipment easier at 127s. 6d., c.i.f., London. CELERY.—Indian selling in small with shipment easier at 12/s, od., c.t.l., London. Celery.—Indian selling in small lots at 210s., spot London. Corlander.—Spot Moroccan is offered at 60s., duty paid (53s., in bond); English, 75s. Shipment: Moroccan, 47s. 6d. to 48s. 6d., c.i.f., London. Cumin.—Spot: Cyprian is 127s. 6d.; Maltese, 130s; Moroccan, 127s. 6d., duty paid. Shipment: Cyprian, 110s.; Moroccan, 107s. 6d., c.i.f. Newcrop is not yet indicated. Dill.—Indian on spot is 90s., sellers, and for shipment, 70s., c.i.f. is quoted. Fennel.—Quiet. Indian, 110s. now quoted on spot. Fenu on spot is 90s., sellers, and to some on spot is 90s., c.i f., is quoted. Fennel.—Quiet. Indian, 110s. now quoted on spot. Fenu-spec —Small business reported. Morocompet —Small business reported. GREEK.—Small business reported. Moroccan is 48s. 6d., duty paid, spot London only. Mustard—Firm. English is 60s. to only. Mustard—Firm. English 77s. 6d., according to quality.

SENEGA. - Spot material offered at

Tinnevelly LEAVES, (per lb.) prime SENNA .-No. 1, 10½d, to 1s. 1d., as to crop; prime No. 2, 9d. to 11d.; prime No. 3, 7d.; f a.q., No. 3, 6d.; pods green, 1s. 6d. to 2s.; No. 1 hand-picked, 1s. 5d; f.a.q., 6d. Alexandrian leaves and siftings quoted 1s., c.i f.; manufacturing pods, 1s. 10d., spot, best qualities unobtainable.

SERPENTARIA. — Root is offered at 37s. per lb. on the spot.

SHELLAC. — Spot quotations are:— F.O.T.N. pure, 255s.; F.O. standard No. 1. 265s.; fine orange, 275s, to 335s. per cwt., ex-London wa ehouse.

SQUILL.—Italian white on the spot is on the spot is No. 2 is about 70s. per cwt. nominal. No. 2 is a 60s., no offers of white from origin.

STRAMONIUM.—Indian LEAVES are 5½d. per lb., spot and European, 97s. Ed. per

STROPHANTHUS.—Kombź, 100 pe cent. is about 9s. per lb., on the spot, and Gratus, 16s.

STYRAX.—Spot is 5s. 9d. per lb., duty

TAMARINDS. - Supplies of West Indian are offered at 50s. per cwt., duty paid.

TONKA BEANS.—Frosted Para on the spot are scarce at 6s. 6d. per lb. Shipment offers withdrawn.

Tragacanth — No. 1 ribbon on the spot £105 per cwt.; No. 2, £85; No. 3, £105 per cwt.;

TURMERIC.—Little offering on the spot with prices nominal. New-crop Madras finger reported sold at 98s. 6d., c.i.f., for April-May shipment.

UVA URSI.—Spot offers are about 85s.

Valerian.—Indian is 145s, per cwt, on the spot and from 130s, to 145s., c.i.f. Belgian, 185s., spot.

Vanillin. — Rates (per lb) are:—5 cwt. lots, 30s; 1-cwt., 30s, 3d; 56-lb., 30s, 6d.; smaller quantities, 30s, 9d.

WITCH HAZEL.—Leaves on the spot are about 1s. 9d. per lb.

Essential and Expressed Oils

ANISE.—Spot supplies are slightly firmer at 9s. $4\frac{1}{2}$ d. per lb., with shipment offers around 9s. $1\frac{1}{2}$ d., c.i.f.

Bois DE ROSE. — Brazilian on the spot is 31s. 6d. and 29s. 6d., c.i.f.

CASTOR. — In minimum 2-ton lots the price of pharmaceutical quality for prompt delivery is £141 per ton, naked, ex mill. Forward from £133 to £138 as to

CITRONELLA. — Quiet. Prices (per lb.) are:—Ceylon. spot, 3s. 10d. per lb.; shipment, 4s., c.i.f.; Java, 6s., duty paid; shipment, 5s. 3d., c.i.f.; Formosa, 5s. 9d., duty paid, and 5s. 3d., c.i.f.

GERANIUM. — Bourbon is 80s. per lb. on the spot. Shipment, 77s. 6d., c.i.f.

GINGER. — English-distilled oil is from 120s. per lb. Imported oils are available at from 80s. to 90s. per lb.

Grapefruit.—Australian is 14s. 6d. per lb. spot; Californian, cold pressed, 20s., c.i.f., subject to licence.

HYDNOCARPUS.—Spot is scarce at 2s. 2d. per 1b.

JUNIPER BERRY. — Imported oils are offered at 17s, 6d, per lb, duty paid. English-distilled is offered at 75s, to 80s.

 Spot values are from LAVANDIN. 13s. 9d. to 16s. per lb., as to quality.

LAVENDER. — French, 40-42 per cent. linalol on the spot is from 33s, per lb.

LAVENDER SPIKE. - Spanish is about 11s. 6d. per lb.

LEMON—B P. (4 per cent, citral) on the spot is 38s. to 39s, per lb. Californian, 35s. 3d. to 52s. 3d., c.i f., as to quality, subject to licence.

LEMONGRASS.—East Indian is unchanged at 9s. 4\footnote{d}. De on the spot but forward offers have eased slightly to 9s. 3d., c.i.f., July-August. new crop, 8s. 3d.

OLIVE.—New-crop Spanish virgin and pharmaceutical oils (B.P.) are offered on the basis of £214 5°, per 1,000 kilos, f.o.b., Spanish ports for prompt shipment. Spanish ports for prompt shipment. Equivalent landed terms ex-wharf London/Liverpool approximately 21s, per gall, for minimum 1-ton lots (5 x 48-gall, drums). French oil is about £225, c.i.f., London.

PALMAROSA. — East Indian is from 50s, per lb., on the spot, and 47s. 6d., c.i.f., for prompt shipment.

PATCHOULI. — Penang for shipment is 47s. 6d. per lb., c.i.f. with spot offers at 55s., duty paid.

PENNYROYAL. — Spot value is from 13s. 6d, to 14s. per lb., duty paid.

PEPPERMINT. - Arvensis: Chinese about 18s. 4½d. per lb., spot, and 17s. 1½d., c.i.f. March-April shipment: Brazilian (45 per cent.), 16s. spot, forward, 15s. 6d., c.i.f. Italian "Mitcham" type oil is from 47s. 6d. to 52s. 6d. por lb. on the cent. 47s. 6d. to 52s 6d. per lb. on the spot.

PETITGRAIN. — Paraguay on the spot is 18s. per lb., and for March-May shipment is 17s., c.i.f.

PIMENTO. English-distilled berry nominal with imported at 55s. Rectified leaf (imported), 25s, per lb.

PINE.—Pumilionis on the spot is from 6s. per lb.; sylvestris, 9s. Siberian 16s. per lb.; (abietis), 9s. 6d.

ROSEMARY. — Spanish oil on the spot about 5s. 9d. per lb., duty paid, for в.р. quality.

Rue.—Spot offers are from 12s. 6d. per

SAGE.—Spanish is offered at from 9s. 6d. per lb. and Dalmatian at 50s., duty paid. SPEARMINT. — Offers of U.S.P. quality at 42s., c.i.f., per lb.

TITREE. - Spot supplies are offered at 14s, per lb.

VETIVERT. — Bourbon in original drums on the pot is 92s. 6d. per lb.

COMING EVENTS

Items for inclusion under this heading should be ent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Monday, April 5

PLYMOUTH BRANCH, PHARMACEUTICAL SOCIETY, lecture theatre, Freedom Fields Hospital, Plymouth, at 7.30 p.m. Annual meeting.

WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, Bell Hotel, Bromley, at 8 p.m. Mr. V. M. Franklin, F.R.C.S., on "The Intervertebral Disc Lesion, Recent Advances" and "Foot Ailments." Film, "Modified Kellers Operation by V. M. Franklin, F.R.C.S."

Tuesday, April 6

BRITISH PHARMACEUTICAL STUDENTS' ASSOCIATION, School of Pharmacy, University of London, 17 Bloomsbury Square, London, W.C.1, at 6 p.m. Registration for annual conference (which extends until April 10).

CROYDON PHARMACISTS' ASSOCIATION and BRANCH, Café Royal, North End, Croydon, at 7.30 for 8 p.m. Branch supper and social evening. Ticket 12s. 6d. from Mr. H. R. Gilby, 81 Southbridge Road, Croydon.

LONDON COUNTY PHARMACEUTICAL ASSOCIATION and East Metropolitan Branch, Pharmaceu-TICAL SOCIETY, Derby room, Bonnington Hotel, Southampton Row, London, W.C.1, at 7.45 p.m. Joint meeting for hearing statements of policy from candidates for the Pharmaceutical Society's Council election.

NORTH LONDON PHARMACEUTICAL ASSOCIATION and Branch, Beale's Restaurant, Holloway Road, London, N.7, at 7.45 p.m. Annual meeting.

NORWICH BRANCH, PHARMACEUTICAL SOCIETY, Assembly House, Theatre Street, Norwich, at sembly House, 7.15 for 7.45 p.m. Annual meeting.

READING BRANCH, PHARMACEUTICAL SOCIETY, George V room, George Hotel, Reading, at 8 for 8.30 p.m. Joint meeting with Reading division, British Medical Association. Dr. F. E. Camps (Home Office pathologist) on "The Medico-Legal Aspects of Poisons" (illustrated). SLOUGH BRANCH, PHARMACEUTICAL SOCIETY, community centre, Slough, at 8 p.m. Annual meeting, Mr. K. A. Lees on "Antibiotics—The Changing Outlook."

SOUTH-EAST LONGON CHEMISTS' ASSOCIATION and SOUTH-EAST METROPOLITAN BRANCH, PHARMACEU-TICAL SOCIETY, New Cross Inn, 323 New Cross Road, London, S.E.14, at 8 p.m. Dr. J. M. Rowson (curator of the Pharmaceutical Society's museum) on "Some Modern Studies on Drug Activity."

Wednesday, April 7

BIOLOGICAL METHOOS GROUP, SOCIETY FOR INTERIOR METHODS MOOT, SCHEMISTRY, Wellcome Research Institution, Euston Road, London, N.W.l, at 2,30 p.m. Symposium on "The Comparison of Chemical and Biological Estimations of Drugs in Quantitative Pharmacology."

BRIGHTON ANO HOVE BRANCH, PHARMACEUTICAL Society, Adelphi Hotel, Old Steine, Brighton, at 7.15 p.m. Meeting to be addressed by candidates for election to the Pharmaceutical Society's Council. All surrounding branches are invited to participate.

WESTERN [LONOON] PHARMACISTS' ASSOCIATION, Bonnington Hotel, Southampton Row, London, W.C.I. at 7.15 for 7.30 p.m. Annual meeting, followed by discussion on resolutions for the Branch Representatives' meeting in May.

Thursday, April 8

Branch, Pharmaceutical SOCIETY. BRISTOL Guildhall, Small Street, Bristol, 1, at 7.15 p.m. Annual meeting.

DUDLEY, NORTH STAFFS, STAFFS, WALSALL and WOLVERHAMPTON BRANCHES, PHARMACEUTICAL SOCIETY, Swan Hotel, Gaolgate, Stafford, at 7.15 p.m. Annual regional dinner, Ticket 13s. from individual branch secretaries.

EPSOM AND SUTTON BRANCH, PHARMACEUTICAL SOCIFTY, Spread Eagle Hotel, Ashley Road, Epsom at 7.45 p.m. Annual meeting.

LEEDS BRANCH, PHARMACEUTICAL SOCIETY, Metropole Hotel, Leeds, at 7.30 p.m. My Young on "From Pharmacy to Lunacy."

LIVERPOOL CHEMISTS' ASSOCIATION and BRANCH, Radiant House, Bold Street, Liverpool, at 7.30 p.m. Symposium session preceded by a film.

PROPRIETARY ARTICLES TRADE ASSOCIATION, Connaught rooms, Great Queen Street, London, W.C.2, at 3 p.m. Annual meeting.

THAMES VALLEY PHARMACISTS' ASSOCIATION, Kingston Hotel, Kingston, at 7.45 p.m. Annual meeting, followed by Mr. W. C. Jarvis, M.P.S., on "Staff Training."

Saturday, April 10

NORTH OF ENGLANO SECTION, SOCIETY FOR ANALYTICAL CHEMISTRY, City Laboratories, Mount Pleasant, Liverpool, 3, at 2,15 p.m. Discussion on "The Food and Drugs (Amendment) Bill."

Advance Information

JUNIOR BRANCH, MANCHESTER AND SALFORD BRANCH, PHARMACEUTICAL SOCIETY, April 11: Ramble via Poynton-Bowstones, Lyme Park.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," March 10 For vitamin preparations and preparations of æstradiol monobenzoate, progesterone, nikethamide and methyltestosterone, all for pharmaceuti-

DANBEVITE, DANESTRO, PROMENODAN, KETHRODAN, METRODAN, 726,006, -07, -10, -11, -12, by H. E. Daniel, Ltd., London, S.E.19.

For pharmaceutical substances for human and veterinary use (5)
BENTRICIL, 726,333, by Imperial Chemical

(Pharmaceuticals), Ltd., London, S.W.1.

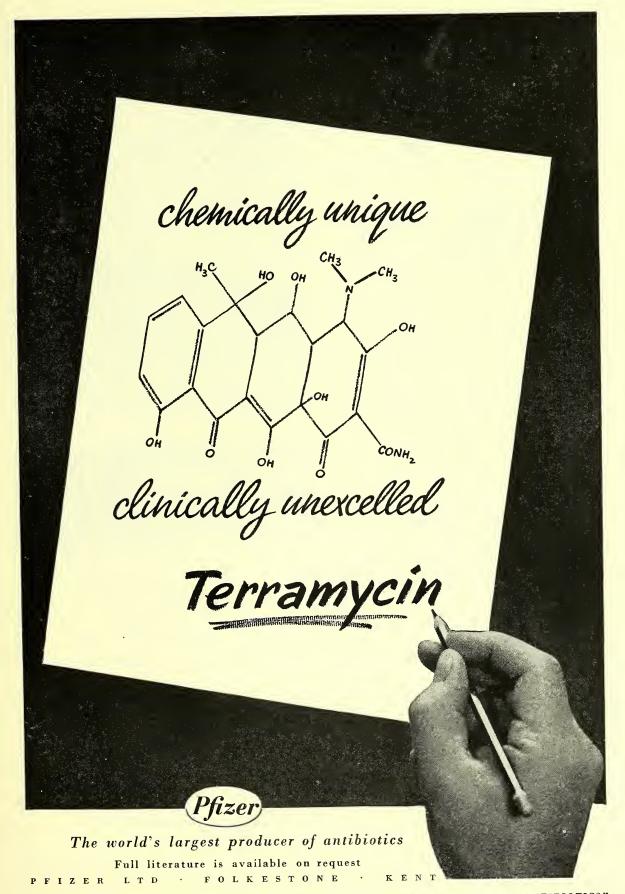
For pharmaceutical preparations (5) PUROVERINE, 719,927, by Sandoz A.G., Basle, Switzerland. DE DURBON, 723,924, by Laboratoires J. Berthier, Grenoble, France.

QUINOCARBINE, 724,043, by Laboratoire

Emile Charpentier, Paris, France.

C. & D. WEEKLY LIST OF PRICE CHANGES

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A=Advanced; R=Reduced; I.R.P.=Inclusive Retail Price; *=Tax 25 per cent.; †=Tax 75 per cent.							
ALLEN & HANBURYS, LTD. (from Mar		streamline, speed boat, motor car, father bear,		ointment, 1 oz. 2 oz.	96 0 14 0 36 0 5 3 64 0 9 4		
Penicillin G, sodium and		and Father Christmas	8 11 R 7 11 R	Dalay tablets*, 10	15 4 2 3		
5 mcga units 6 9 10	0 1½ R 8 3 R	doll, dog Toby, bear cub and streamline junior cot	6 11 R 3 11 R	No. 554 Duracillin A.S. procaine penicillin G	TD.		
ANGLO-FRENCH DRUG CO., LTD.		HERTS PHARMACEUTICALS,	LTD. (from	a que o us suspension,			
Acecolex trophic paste*, Doz. 38 0 5	5 0½ A	April 1)		300,000 units per c.c.			
Cryogenine tablets*.	_		ach 6 A	1 c.c. rubber-stoppered ampoule	21 0 2 7½ R		
0.5 gm., 50 80 0 10	0 7 A 0 7 A		0 A	•			
100 156 0 20 Enterospasmyl, simple*,	0 / A	Eucerin LM, ELM5	6 4	MILTON ANTISEPTIC, LT	D. Each		
100-gm tin 60 0 7	7 11 A		6 A 0 A	Milton 80 fl. oz.	10 6 14 0 A		
mucilaginous*, 100-gm, tin 80 0 10	0 61 R	Eucerin hydrous, EH5		1 call	15 9 21 0 A		
Najodine, vitaminised B*,	_		4 A 6 A	The minimum pack for host to the one gallon size.	ntais is now contined		
10 mils, box of 6 90 0 11	1 10½ R	Eriso, 5 kilos 11	0 74	VOLTAS, LTD.	Doz.		
Trinitrine cafeinee pills*,	5 31 R	DON S. MOMAND, LTD. (f	rom April 1)	Voltas 30 fl. oz.	11 9 1 3 A 13 0 1 5 R		
		Eugene soapless shampoo,	41 R				
C. L. BENCARD, LTD. (from April 1) Benazma*. 8 fl. oz. 71 5 11) 1 1 A	powder	41 K	NEW PRODUCTS	AND PACKS		
20 ft. oz. 170 0	6 5 A	PARKE, DAVIS & CO., LTD.	(from March 29)	ANGLO-FRENCH DRUG	CO., LTD.		
80 fl. oz. 663 0 102	2 11 A	Thrombin topical, 4190			Doz. 52 0 6 10}		
THE CROOKES LABORATORIES, LTD). (from	package containing 5,000- unit vial and a 5-c.c.		Fleet enema*, single-use unit Saliode (external) Gabail*,	32 0		
March 29)	. (110111	vial of diluent	30 0 A	20-mil bottle	52 0 6 101		
Vitamin B ₁₂ :		Tuberculin tablets P.P.D. 4140 package of 10		JOHN BELL, HILLS & L	UCAS, LTD.		
	3 6 R	tests, first strength dilu-		John Bell's compound			
bottle of 500	25 0 R	tion	14 0 A	pholeodine tablets*,	11 6 1 10		
ampoules, 20 microgin., 1-mil, 6	2 3 R	4160 package of 10 tests, second strength		*	** -		
50	18 0 R	dilution	15 0 A	BOOTS PURE DRUG CO.	., LTD.		
50 microgm.,	3 0 R	G. WILES, LTD.		Insulin zinc suspension, amorphous or crystal-	Each		
	24 0 R	Cat food, tin	61 R	line, 10-mil vial	8 3		
100 mierogm.,	4 6 R	Dog food, tin	8 R	THE RESERVE AND ADDRESS OF THE PARTY OF THE	Dog		
	36 0 R	P.A.T.A. PROTECTI	ED LIST	RICHARD HUDNUT, LTD Whirl-a-Wave kit†	117 0 21 0		
Veterinary, 100 microgm.	9 0 R	(Prices notified this week by	the Proprietary	mo-G11 Irit T	48 6 9 0		
per mil., 15-mil vial	y U K	A - tiples Trode Association)		All orders of 3 doz. refill k a-Wave kits received up to	April 30 Subject to		
WILLIAM FREEMAN & CO., LTD.		INTERNATIONAL LABORATO	DOZ.	71 per cent discount. A	further / 2 per cent.		
Suba-Seal hot-water bottles	10 6 R		6 0 5 3	discount is offered for a n	ionth's display.		
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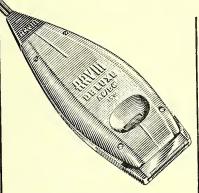
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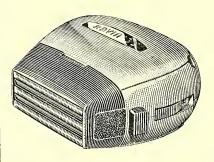
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★ Suba-Seal "Streamline"			
Hot Water Bottle		8	11
★ Children's Bottles:			
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Motor Car		8	11
rather bear			
Father Christmas)	.1.	7	1 1
* Suba-Seal "Comet" Hot Water Bot	tie	/	11
★ Children's Bottles:			
Doll		_	11
Dog Toby \ Bear Cub \ .	• • •	0	1 1
	tla	6	11
* "Streamline" Junior Hot Water Bot	tie		H
Suba-Seal Standard Hot Water Bottle	• • •	0	1 1
Suba-Seal Standard With Handle		,	1 1
Hot Water Bottle			11
Large Nursery Rhyme Hot Water Bot	tle	6	11
Suba-Maid With Handle		_	
1100 11400 20000	•••		11
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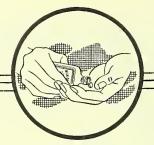
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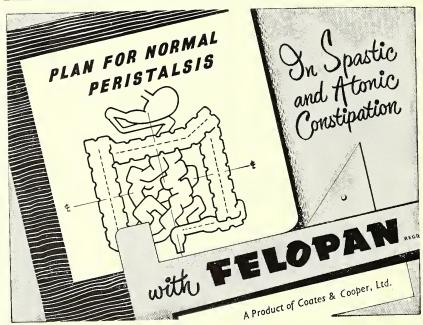
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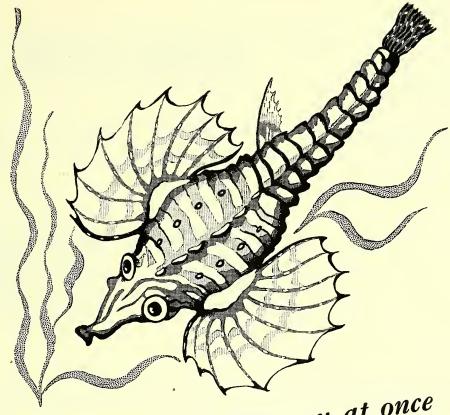
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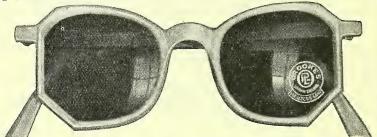
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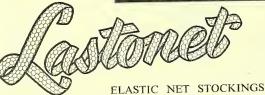
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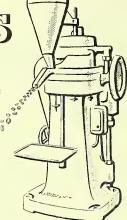
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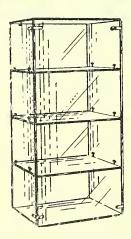
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"I have now used the hard texture Flextron brush which you sent me continuously for a year. It is the best brush by far that I have ever used and I have used it in no uncertain manner. There has been no loosening or dropping at all, it has kept its shape and not bent outwards appreciably, as the ordinary nylon ones do; it has kept hard and strong and is in fact almost as good as new and would I think continue to give excellent service for a further similar period. Others to whom I have mentioned this brush have had equally pleasant experience.

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A timely stimulant to bring new life to your Spring and Summer takings. For every dozen bottles of LIP-COTE (standard size) you order between now and June 30th an extra bottle will be added—FREE to you.

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CHEMIST BUSINESS TRANSFER AGENTS AND VALUERS WHOLESALE AND RETAIL BRANCHES: BIRMINGHAM . SOUTHAMPTON . LIVERPOOL . SHEFFIELD . CARDIFF Irish Representative: Mr. J. A. Bassett, Ph.C., 57 Great Victoria Street, Belfast, Northern Ireland. Tel.: Belfast 27078

BUSINESSES FOR DISPOSAL

17/6 for 36 words (min.) then 4d. per word. Box 2/-

EAST SUSSEX. Old-established village pharmacy, turnover approaching £6,000; unopposed and drawing on wide area; living accommodation, 2 reception, 4 bedrooms, kitchen and bathroom, garage, garden; goodwill, fixtures and fittings, £3,250; freehold of property £4,500 for quick sale, existing private mortgage of £3,000 at low rate could be transferred. S.a.v. £1,800 reducible. Box C 1119. FOR SALE: Catford, Drug store, freehold, fixtures and living accommodation, £2,250. S.a.v. approximately £350. Williams, 91 Catford Hill, London, S.E.6. C 1120 SOUTH WALES. Prosperous and desirable situation. Highly remunerative chemist's business and off-licence. Monopoly position, Profits £3,000 p.a. Freehold. Write Box C 1083.

BUSINESSES WANTED

17/6 for 36 words (min.) then 4d. per word. Box 2/-

WANTED for purchase well-established pharmaceutical manufacturing business with or without own sales organisation. Please write in confidence to Box C 6776.

APPOINTMENTS

18/- per half-inch (min.) and pro rata. Box 2/-

BRADFORD ROYAL INFIRMARY

Pharmacist required (male or female) for large up-to-date department. Whitley salary and conditions of service. Applications to Secretary. C 6741

COUNTY HOSPITAL, LINCOLN
Locum Pharmaeist
required at the County Hospital, Lincoln.
Apply with full particulars to the Group Pharmaeist, County Hospital, Lincoln. C 6761

FULHAM AND KENSINGTON HOSPITAL MANAGEMENT COMMITTEE,

COMMITTEE,
ST. MARY ABBOTS HOSPITAL,
MARLOES ROAD,
KENSINGTON, W.8
Pharmacist
required for sterile syringe service and preparing sterile solutions for the Group. Previous experience in this type of work an advantage. Duties to commence as soon as possible. National salary scales and conditions. Applications, stating age, qualifications and experience, quoting the names of two referees to Hospital Secretary (C.D. 183), immediately. C 6738

LUTON AND DUNSTABLE HOSPITAL

Locum Pharmacist
required for duty at the Luton and Dunstable
Hospital and St, Mary's Hospital, Luton, during the months of June, July and August.
Salary according to experience. Apply to Assistant Secretary, Luton and Dunstable Hospital.
C. 6778

ILFORD AND BARKING GROUP HOSPITAL MANAGEMENT **COMMITTEE**

The following locum staff are required at King George Hospital, Ilford (215 beds):

(a) Pharmacist-in-charge for any two consecutive weeks in April or May, Sept. 6-18. Salary up to £15 15s, per weck according to

Salary up to 115 15s, per week according to experience.

(b) Assistant Dispenser (Apothecaries' Hall), June 14-July 3.

Salary £10 10s, per week.

Applications, together with details of previous appointments to the undersigned as soon as

possible.

H. F. HARRIS, Deputy Group Secretary, King George Hospital, Ilford. C 6766 H. F. HARRIS

LUTON AND DUNSTABLE HOSPITAL

HOSPITAL
Senior Pharmacist
required for duty in the Pharmaceutical Department at the Luton and Dunstable Hospital, and at St. Mary's Hospital, Luton. The main hospital is a very busy modern one, the Department has much varied and interesting work including a large amount of sterilising. Whitley Council salary scale, Apply to Assistant Secretary, Luton and Dunstable Hospital.

C 6777

MILLER GENERAL HOSPITAL, GREENWICH, S.E.10 (180 Beds)

Assistant in Dispensing required at above hospital. Salary according to age and experience (max. £415 p.a. at 29 years) plus London Weighting and qualification allowance if over 18 years, Superannuable post, Apply Chief Pharmacist (Tel.: Tideway 1136).

NOTTINGHAM NO. 1 HOSPITAL
MANAGEMENT COMMITTEE,
NOTTINGHAM AND MIDLAND
EYE INFIRMARY
Chief Pharmacist Category II
Applications are invited for the appointment of
Chief Pharmacist (non-resident) at the above
Hospital, to commence duttics mid June next.
Salary and conditions of service in accordance
with the Pharmaceutical Whitley Council Regulations, Salary £625 x £25—£725.
Applications giving full particulars, together
with copies of three recent testimonials, to be
sent as soon as possible to the Secretary,
General Hospital, Nottingham, C 6705

PADE SIDE MENTAL HOSPITAL

PARKSIDE MENTAL HOSPITAL,

MACCLESFIELD, CHESHIRE

Qualified Assistant in Dispensing
required to work under direction of Chief
Pharmacist, Salary and conditions subject to
Health Service Whitley Council agreement,
Applications to Chief Pharmacist, C 6765

ROYAL FREE HOSPITAL GROUP

Locum Pharmacists
required for holiday relief and other duties.
Salary £12 12s. per week. Applications, together
with names of two referees, should be addressed
to Group Chief Pharmacist, Royal Free Hospital, Gray's Inn Road, London, W.C.1.

NORTH WALES HOSPITAL FOR

NORTH WALES HOSPITAL FOR NERVOUS AND MENTAL DISORDERS, DENBIGH
Chief Pharmacist required at the above hospital. Salary and conditions of service in accordance with Whiteley Council scale Category II, viz., £625 x £25 —£725. The person appointed will also be responsible for supplying and supervising branch dispensaries at four other small hospitals in the Group. Applications, together with the names of two referees, to be sent as soon as possible to the undersigned.

S. L. FROST.

S. L. FROST.
Secretary to the Management Committee.

SHEFFIELD No. 2 HOSPITAL
MANAGEMENT COMMITTEE
Assistant in Dispensing
Applications are invited from suitably qualified
persons for the post of Assistant in Dispensing
for duty in the Central Pharmaceutical Department at Middlewood and Wharncliffe Hospital
(2,400 patients including medical and surgical
units, etc.).
Salary scale £320 x £10—£340 x £15—£415 p.a. plus £15 p.a. at all points on the scale for
holders of approved qualifications. Candidates
aged 22 or over enter at £320 per annum.
Conditions of service in accordance with those
issued by the appropriate Whitley Council,
National Health Service (Superannuation) Regulations apply.

National Health Service (Supermined lations apply, Applications, stating age and experience, together with the names and addresses of two persons to whom reference may be made should be forwarded to Mr. F. J. Whelan, M.P.S., Group Pharmacist, Central Pharmaceutical Dept.. Middlewood Hospital, Sheffield, 6.

R. EMERSON, Deputy Group Secretary, C 6781

SPRINGFIELD HOSPITAL, **UPPER TOOTING, S.W.17**

VPPER 10011135, S.....

Pharmacist
Salary on Whittey Council Scale £450 x £25—
£575, plus London Weighting, Apply, stating age, qualifications and experience to Group C 6780

ST. BARTHOLOMEW'S HOSPITAL,
LONDON, E.C.1
Pharmacists
Two vacancies exist, Salary in accordance with
the Whitley Council scale. Write, enclosing two
copies of testimonials to the Pharmacist, C 6790

ST. LUKE'S HOSPITAL, BRADFORD

required. General and Maternity Hospital. (Category V.) Up-to-date department. Opportunity for specialisation, Whitley Council salary and conditions. Apply Hospital Secretary.

C 6789

ST. GEORGE'S HOSPITAL,

S1. GEURGE'S HUSPITAL,
HYDE PARK CORNER,
LONDON, S.W.1
Pharmacist
Applications are invited for the post of Pharmacist at above teaching Hospital. Salary in accordance with the Pharmaceutical Whitley
Council scale, Applications, with full particulars, to: Chief Pharmacist.

C 676

Appointments—Continued

SUMMERFIELD HOSPITAL, WESTERN ROAD, **BIRMINGHAM, 18**

Pharmacist required at this Chronic Sick Hospital, Salary and conditions as prescribed by the Pharmaceutical Whitley Council, Detailed applications, giving names of two referees, to the Hospital Secretary. Secretary.

THE HOSPITAL FOR SICK
CHILDREN,
GREAT ORMOND STREET,
LONDON, W.C.1
Pharmacist
Applications are invited for the post of pharmacist at this hospital. Salary within the Pharmaceutical Whitley Council Scale (£450 x £25—£575) plus London Weighting, £25 for recognised higher qualification. Apply by letter to Chief Pharmacist.

THE LONDON HOSPITAL

THE LONDON HOSPITAL,
WHITECHAPEL, LONDON, E.1
Locum Registered Pharmacists
required from mid-April to mid-October
Dining-room facilities available. Write
Secretary.

C 186

THE LONDON HOSPITAL,
WHITECHAPEL, LONDON, E.1
Pharmacist
Applicants must be registered Pharmacists.
Salary scale £450 (age 2.3) x £25 to £575 plus
London Weighting according to previous experience and service. Din.ng-room facilities available. Write Secretary.

C 186

Pharmacist
C 179

THE MILLER GENERAL

HOSPITAL (Cat. III)
Senior Pharmacist and Pharmacist
Applications are invited for the posts of
SENIOR PHARMACIST and PHARMACIST
in a well-equipped pharmaceutical department
at the above hospital, Inspection of the department may be made by arrangement with
Chief Pharmacist.
Selary and conditions of service as laid down

Chief Pharmacist.

Salary and conditions of service as laid down by the Pharmaceutical Whitley Council.

Applications giving full details should be made to the Secretary, G. & D./H.M.C., St. Alfege's Hospital, S.E.10, as soon as possible, C 6742

UPTON HOSPITAL,

SLOUGH, BUCKS
Locum Senior Pharmacist
required from May 5. Salary £14 14s. per
week. Application to Hospital Sceretary. C 6760

WHITTINGTON HOSPITAL,

WHITTINGTON HUSETTAL,
LONDON, N.19
Deputy Chief Pharmacist, Cat. IV
for St. Mary's Wing, Highgate Hill.
Candidates are invited to visit, by arrangement
with Medical Superintendent.
Detailed applications, with names of two referees to Group Secretary, Archway Group
H.M.C., 46 Cholmeley Park, N.6, within 10
days.

C 6788

SITUATIONS OPEN

8/6 for 36 words (min.) then 3d. per word. Box 2/-

The engagement of persons answering these advertisements must he made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

RETAIL (HOME)

BRISTOL. Chemist's counter assistant. Experienced young lady, single, pleasant personality, permanency. Dispensing experience an advantage but not essential. Usual particulars, age and salary required to Dunn (Chemists), Ltd., Bristol, 4. and salary equired to built (change) the Bristol, 4. C 1130 CHEMIST'S COUNTER ASSISTANT, experienced lady required, pleasant personality, Excellent conditions, Apply Kendale Dispensing Chemists, 51 Exmouth Street, E.C.1. Phone: Terminus 9494. Terminus 9494. EXPERIENCED LADY ASSISTANT required for counter and dispensing duties, Apply by letter to W. J. Boyes, Ltd., 61 Balham Hill, S.W.12. C 1090

COSMETIC and toilet assistant, not over 35,

COSMETIC and toilet assistant, not over 35, required for good-class pharmacy in market town. Applicants should have undeniable references, be able to work with other staff, and have a pleasant manner with customers. All the leading high-class agencies, Please give all details of age, previous experience and salary required to Wilfrid E. Dale, Ltd., 27 Market Place, Andover, Hants, C 1124 CROYDON. Pharmacist (either sex) required as assistant to director, Duties mainly dispensing with occasional help on counter, Pleasant working conditions. Particulars and salary required to Ashbrooks Chemists, Ltd., 172B, Church Road, Mitcham, Surrey. C'1123 HAYES, MIDDLESEX. Excellent opportunity for energetic pharmacist to manage busy branch in pleasant area. Well fitted shop. Adequate assistance. Modern dispensary, Progressive salary with monthly bonus and rota duty payments. Accommodation available if required. Permanency with pension fund, etc. Apply with full details stating when available for interview to Chief Pharmacist, Grange Road, Leyton, E.10. C 1095

LADY ASSISTANT, unqualified, experienced counter, cosmetics, some knowledge dispensing, required soon as possible, holiday this year, no Wednesday evening duty. Apply F. D. Finn (Chemists), Ltd., 529 Battersea Park Road, S.W.11, Bat. 1391.

S.W.11. Bat. 1391. C 1106
LONDON, CENTRAL Young lady assistants required for toilet department in good-class pharmacy. Part-time and full-time. Permanent positions with good progressive salaries. Saturday half-day, Summer holiday with pay this year. Apply with details of age and experience to Box C 6773.

MANAGER required for attractive pharmacy in MANAGER required for attractive pharmacy in Tolworth, Surrey. The position is permanent, offering good salary and commission with superannuation benefits. Apply, giving full particulars, to the Staff Manager, Royal Arsenal Co-operative Chemists, Limited, 71 Powis Street, Woolwich, S.E.18. C 6749 MANAGER REQUIRED for busy pharmacy in Headingley, Leeds. Near cricket ground. Good salary with commission, including excellent house adjoining, with ample room for family. Two weeks holiday. Write, giving full details of age and experience, with reference to W. A. Wharram (Retail), Ltd., 27 Eastgate, Leeds, 2. C 6794

Leeds, 2. Co/94
MIDLANDS. Small private company requires
manager or manageress for busy branch. Centralised buying system in full operation, fully
trained supporting staff maintained. Superannuation scheme if required. Salary £800 plus
percentage net profits. This is an interesting
post for an ambitious pharmacist, Box C1082. post for an ambitious pharmaeist, Box C1082.

NORTH LONDON SURURB. Pharmaeist required to manage spacious well fitted branch with substantial counter trade, Good opportunity for ambitious man to carn top salary together with monthly bonus and rota dutty payments. Accommodation available if required or assistance given in house purchase. Superannuation benefits, etc. Apply with full details stating when available for interview to Chief Pharmaeist, Grange Road, Leyton, E.10.

C 1096

PHARMACIST, lady or gentleman, to manage old-established branch in pleasant residential area, Most congenial position with good salary and three weeks' annual holiday. Comfortable and roomy living accommodation available if required. Apply in first instance to A. Platts, M.P.S., Eardley and Furnival, 265 Glossop Road, Sheffield.

C 1085

UNQUALIFIED ASSISTANT, whole or partime, for dispensing and counter, in S.W. London. Apply Box C 1089.

London. Apply Box C 1089.

WANTED: PHARMACIST (male or female) as superintendent. Wages 14 gns. weekly. House rent free, Good hours and conditions. Apply the Garndiffaith & Varteg Co-operative Society, Ltd., Garndiffaith, Mon. C 1110

WEST MIDDLESEX. Unqualified assistant for dispensing and counter, Photographie experience an advantage. Davies, Crescent Parade, Hillingdon, Middlesex. C 1113

LOCUMS WANTED

LOCUM, qualified, required August 9 to 14 inclusive, Goodall, 544 Manchester Road, Bradford. C 1114 LOCUM PHARMACISTS required for London and suburban areas, long or short periods March to October, Permanency at conclusion of tour if desired. Salary and expenses basis. Apply to H. Warburton, M.P.S., Chief Pharmacist, London Co-operative Chemists, Ltd., Grange Road, Leyton, E.10.

RETAIL (OVERSEAS)

RETAIL (OVERSEAS)

CHEMISTS AND DRUGGISTS (English certificate only) required. Preferably not over age 36. Starting salary £900 per annum rising by annual increments of £50 to £1,050 per annum at the end of the third year plus generous family allowances. Free furnished accommodation and free medical services. There is a pension fund, contributory, at 10 per cent, of salary, company contributing 15 per cent, and providing also certain guaranteed benefits which include widows' and children's pensions and provision for retirement where the qualifying age for a pension is not reached. These appointments are in British West Africa and there is an initial kit allowance of £75 and the employment enjoys the benefit of the Colonial rates of income tax. Tours of 21 months are followed by substantial leave on full pay, First-class passages are provided for men, their wives and children under eight. Apply, giving full particulars to Box No, 7557, e/o Charles Barker & Sons, Ltd., 31 Budge Row, London, E.C.4.

QUALIFIED MANAGER required for overseas, preferably not over age 35 and well experienced in retail pharmacy. Knowledge of optics an advantage but not essential. The appointment is in British West Africa at one of the branches of an old-established firm of wholesale and retail chemists with registered offices in England, Furnished accommodation is provided free as is also medical attention. Contributory pension scheme in operation, Tour of short duration with generous home leave on full pay, Salary (subject to low rates of income tax) to be discussed at interview also initial tropical kit allowance. First-class passage paid outward and homeward for successful applicant, if married to include wife, Apply, staining age, whether married or single, when free to proceed by air if appointed, also full details of qualifications and experience to Box C 1115.

WHOLESALE

A VACANCY has occurred in the medical information service of a firm of manufacturing ehemists near London. The situation calls for a knowledge of therapeuties and the eandidate should have a flair for writing accurate and pleasing English. Applications for this position are invited from pharmacists, preferably with hospital experience and from medical students who have completed their clinical course but who are unable to qualify. A Degree in Science or Arts would be an advantage. Write, giving full details of qualifications and experience to Box C 6/72.

BIOREX LABORATORIES, LTD. Sales representative. Pharmacist preferred, excelient re-

ENCE TO BOX C 6/72.

BIOREX LABORATORIES, LTD. Sales representative. Pharmaeist preferred, excelient remuneration. Essential established connection ehemists and hospitals; drugs, dressings, proprietaries, chemists' sundries, car owner, unusual opportunity. North London and other London territories vacant. Apply to 47-51 Exmouth Market, London, E.C.J. C 6769
FACTORY MANAGER required, qualified, capable of controlling staff. Well-ver.ed in modern production methods as applied to pharmaceuticals. Pension scheme, eanteen, etc. Complete particulars to Box C 1109.
FOR LANCASHIRE (and perhaps Westmorland, etc.). Representative with thorough knowledge of wholesale drug trade, and good connection amongst retail pharmaests on this territory. Must be experienced salesman, Excellent remuneration, Car provided, Write for interview, gliving particulars. Apply Box C 6695.
FOREMAN with a complete knowledge of tableting and coating required. Only first-class men need apply. Salary will be commensurate. Pension scheme, canceen, etc., London area. Apply in first instance to Box C 1103.
INDUSTRIAL REPRESENTATIVE to call with lirst-aid appliances, diressings, drugs, plasters, instruments, on industrial establishments and

Apply in hirs instance to Box C1103.

INDUSTRIAL REPRESENTATIVE to call with hirst-aid appliances, dressings, drugs, plasters, instruments, on industrial establishments and institutions. Territory Greater London area. Apply with full particulars of experience to Biorcx Laboratories, Ltd., 47-51 Exmouth Market. E.C.1.

LEADING MANUFACTURER of nationally advertised to let sundres requires representatives for London area, salary, commission, expenses. We will consider only keen and energetic men with sound connections with wholesale and retail chemists. Box C 6774.

LONDON pharmaceutical house requires representatives to retail chemists in: (a) South and South-west England; (b) S, Wales; (c), N.E. Coast, with strong connection in the area concerned, Experience in proprietary selling and commission. Box C 6740.

2 JUNIOR EXECUTIVES REQUIRED

TIBA require 2 junior executives for their Sales and Advertising Department. These positions are progressive and will provide excellent opportunities for the right men. Five-day week, canteen facilities and contributory pension fund. Applicants should send full details of agc, education, experience and qualifications, to the Sales Manager: Ciba Laboratories, Limited, Horsham, Sussex.

'UNISEC' from the Single Unit to the Complete Pharmacy WRITE FOR YOUR COPY OF THE STANDARD REFERENCE OF PHARMACY FITTING MYERS OF OLD ST.

Situations Open—Continued

M.P.S. with manufacturing and analytical experience required by manufacturing chemists in Midlands, where a part interest and directorship is in prospect. Apply in confidence, stating age, experience and salary required to: Felton & Co., Chartered Accountants, 49 Newhall St., Newsiasham 3. age, experience and salary required to: Felton & Co., Chartered Accountants, 49 Newhall St., Birmingham, 3, AND E. LANCS AREA. Well-known ethical house require first-class man as medical representative to take over their established connection on this territory. Previous experience is not essential but candidates must have sound pharmaceutical background, reside on and know the area well. Remuneration is by way of salary, commission and expenses. An attractive pension scheme is also in force. Box C 6712.

MANUFACTURING CHEMISTS in Midlands require qualified chemist with manufacturing and analytical experience, progressive position. Full particulars stating age, qualifications, ex-

require qualified chemist with manufacturing and analytical experience, progressive position. Full particulars stating age, qualifications, experience and salary required to Box C 1079.

MEDICAL REPRESENTATIVE required by London house to visit doctors, hospitals and chemists in the Yorkshire, Northumberland and Durham areas, in Scotland (principal towns from Glasgow to Aberdeen), and also in the Greater London area. Applicants must have a good pharmaceutical background and a knowledge of medical terminology. Men between the ages of 25 and 35 are invited to apply, and details of age, experience and salary required should be stated. Box C 181.

MEDICAL REPRESENTATIVE. Applications are invited by well-known London House for the position of medical representative for the territory comprising the Tyne and Tees areas. Previous representative experience is not essential but applicants must have sound pharmaceutical background and know the area well. The position is a pensionable one and offers salary, commission and expenses. Write in confidence to Box C 6713.

MEDICAL REPRESENTATIVES. Sandoz Products Ltd invite applications from young men

MEDICAL REPRESENTATIVES. Sandoz Pro-MEDICAL REPRESENTATIVES. Sandoz Products, Ltd., invite applications from young men for the immediate appointment of a medical representative in the London North-east area and the Bristol area (principally Gloucestershire and Somerset). Age not exceeding 28. Applicants should be pharmacists (preferably F.P.S.). Salary commensurate with experience. Thorough training provided, Please send full details of age, education, qualifications and experience, with photograph, to the Manager, Sandoz Products, Ltd., 134 Wigmore St., London, W.1.

C 6748

ger, Sandoz Products, Ltd., 134 Wigmore St., London W.1. C 6748 NORTH WALES. Representative required to take over and extend existing connection for well-known firm of manufacturing chemists and druggists. Please give full details of experience, etc., in confidence, to Sales Director, c/o Box C 6746.

PHARMACEUTICAL CHEMIST. Manufacturing chemists, marketing range of pharmaceutical preparations for home and export markets, have a vacancy for young pharmaceutical chemist or graduate in pharmacy. In addition to routine duties, opportunity would be provided to take an interest in research work. To the choren applicant, the appointment should be progressive. In first place applications, giving full information, should be addressed to Box C 6730.

C 6730.

PHARMACIST required for publicity department to control U.K. and overseas advertising in conjunction with outside agency. Able plan and help create ethical literature and keep records of existing and future programmes. Should be knowledgeable regarding distribution and sales of ethicals. Good salary and prospects offered to right man. Contributory pension scheme. Organon Laboratories, Ltd., Brettenham House, Lancaster Place, W.C.2, Attention E.B.

C 6759

tion E.B. C 6/59 PHARMACIST preferably with manufacturing experience required for small proprietary medicine business. Write, stating age and experience to Managing Director, George Eade, Ltd., 232 Goswell Road, London, E.C.I. C 183

PRODUCT PROMOTION

A Company of international repute, operating A Company of international repute, operating in the Pharmaceutical field, requires a first-class man to be responsible for the development and sales promotion of an important group of products. Applicants should have considerable experience of packing and presentation, pricing, merchandising and advertising. The position earries a substantial salary, is pensionable, and offers every opportunity for future advancement. Write, in the first instance, giving full part.culars of qualifications and experience to Box C 6775.

REPRESENTATIVE AGENT already calling on retail chemists in areas of North England and Scotland required to increase sales of line already selling well through wholesale chemists,

REPRESENTATIVE well-introduced amongst chemists, hairdressers, etc., wanted by company of chemist sundries wholesalers, manufacturers and importers of repute and a few introduced branded specialities and prices without competition for various parts of the U.K. (except London and Lanes) against liberal commission and part expenses (if own car), Detailed offer with indication of territory covered and references to Box Co 6764.

REPRESENTATIVES WANTED in several areas. Pharmaceutical speciality products, retailers, wholesalers and hospitals. Remuneration commission only, but representation for another non-competitive firm not objected to. Clay & Abraham (Mnfg.), Ltd., 2 Upper Duke Street, Liverpool, 1.

RESEARCH CHEMIST. Applications are invited from suitably qualified men for the appointment of research chemist to a nationally known company of manufacturing chemists, situated within easy reach of Liverpool and Manchester. A growing programme of research work is being undertaken. The appointment offers opportunity of advancement, and the duties include some staff supervision. Applications which should be fully detailed, will be addressed to the Managing Director, Box Cotte PRODUCTS, LTD., require a medical protections which should be fully detailed, will be addressed to the Managing Director, Box Cotte PRODUCTS, LTD., require a medical protections in the control of t

reated in strictest confidence. They should be addressed to the Managing Director, Box C 6729.

ROCHE PRODUCTS, LTD., require a medical representative for (a) Derbyshire, Staffordshire and Leicester; and (b) London (Western) and Wilts. A pharmaceutical qualification though desirable is not essential, nor is previous representative experience. Usual expenses and salary commensurate with experience, Contributory pension scheme in operation, Please send in confidence full details of age, experience, etc., to the Secretary, Roche Products, Ltd., 15 Manchester Square, London, W.1. C 6757 SALES REPRESENTATIVES (2) age 22-30 years required by manufacturers of proprietary lines, packed goods and tablets, to cover: 1, Kent, Sussex and Surrey; 2, Essex, Cambridge, Beds, Bucks, etc. Existing contacts and experience advantageous. Good commencing salary, car provided, expenses paid, pension scheme. Write Box C 6783.

TABLET MANAGER required by well-known house in S.W. Lancs. Pharmacist with good experience of manufacture. Research encouraged. Good salary for right man, Pension scheme, 5-day week. Full details in writing to Box C 6784.

WANTED: Representative for South-west England. Apply to Arthur H, Cox & Co., Ltd., Brighton, stating age and previous experience.

YOUNG PHARMACIST, male or female, QUING PHARMACIST, male or female, required as assistant in general pharmaceutical manufacturing, ampoule and aseptic laboratories in the Birmingham area, Hospital experience an advantage but not essential. Fiveday week, pension scheme, hou e available if required. Apply giving full particulars including salary required to Cuxson, Gerrard & Co., Ltd., Oldbury, Birmingham. C 6714

THE CROOKES LABORATORIES, LTD. Medical Representative. Applications are invited for an additional representative to call on doctors, chemists and hospitals in Essex and East London. A pharmaceutical qualification or an adequate technical background is essential. Candidates should preferably be aged 25-40 and possess personality and initiative. The appointment carries a progressive salary and an annual bonus/commission payment, directly associated with territorial results obtained, together with an adequate expense allowance. The position is permanent and superannuated, and only candidates with a keen desire to progress should apply in writing to the General Sales Manager, The Crookes Laboratories. Ltd., Gorst Road, Park Royal, N.W.10.

SITUATIONS WANTED

3/- for 18 words (min.) then 2d. per word. Box 1/-

WHOLESALE

BUYER, age 47. 27 years in the one firm (wholesale manufacturing chemists), closing owing to reorganisation. Pricing, costing, store-keeping, and last eight years buyer, galenicals, drugs, sundries, etc. Apply Box C 1112. PRUG COUNTER HAND seeks permanent situation in wholesale manufacturing chemists with reliable firm experience. Wets, oils, ointment. Box C 1129. EXPERIENCED EXECUTIVE desires change. Buving, sales, stock control, staff management.

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C 1117.

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Chemists' sundres, Box C 1122.

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NORMAN T. BERRY, Town Clerk.

Town Hall, Slough. March 27, 1954.

C 6725

TRADE MARKS

TRADE MARKS ACT, 1938

The Trade Mark No. 643871 consisting of the word GAYN-GESTEN and registered in respect of pharmaceutical preparations for internal human use was assigned on the 25th January, 1954, by Leslie Gayner Hellens of 2 North Devon Place, Plymouth, to Geoffrey George Lewis Gwyther of 14 North Hill Terrace, Plymouth, without the goodwill of the business in which it was then in use. C 6762

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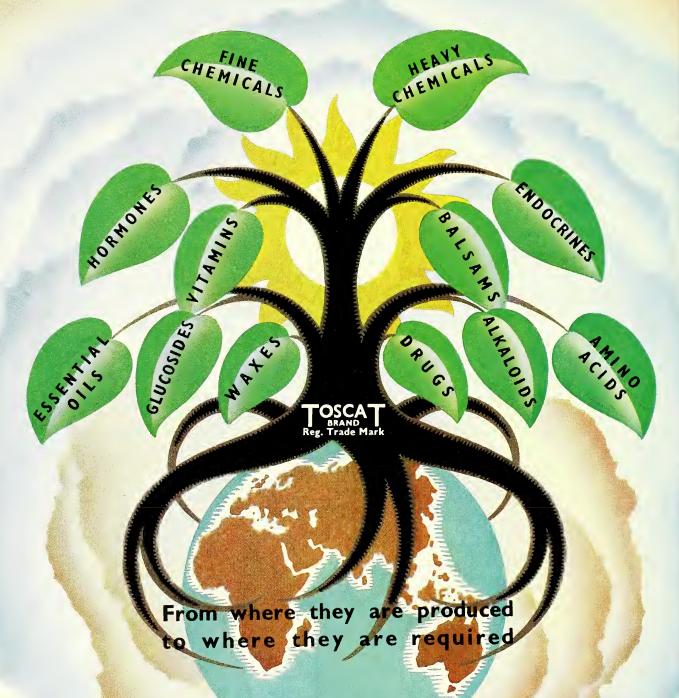
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